### CLASSIFICATION:

CLASSIFICATION:							ı				
EXHIBIT R-2, I	RDT&E Budget	Item Justific	cation				DATE:				
							June 2001				
APPROPRIATION/BUDGET ACTIVITY				PROGRAM	1 ELEMENT	(PE) NAME	AND NO.				
RDT&E, N /BA-7 Operational System Development				0206623M	Marine Cor	ps Ground	Combat/Sup	porting Arn	ns Systems		
									Cost to	Total	
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program	
Total PE Cost	29.020	39.061	43.935	0.000	0.000	0.000	0.000	0.000	Cont	Cont	
C0021 Assault Amphibious Vehicle 7A1 (AAV7A1)	0.385	0.402	0.362	0.000	0.000	0.000	0.000	0.000	Cont	Con	
C1555 Light Armored Vehicle (LAV) PIP	7.354	9.759	14.273	0.000	0.000	0.000	0.000	0.000	Cont	Con	
C1901 Marine Corps Ground Weaponry PIP	14.276	7.999	13.815	0.000	0.000	0.000	0.000	0.000	Cont	Cont	
C2086 Marine Enhanced Program (MEP)	1.472	1.640	2.555	0.000	0.000	0.000	0.000	0.000	Cont	Cont	
C2237 Amphibious Vehicle Test Branch (AVTB)	0.598	0.717	0.732	0.000	0.000	0.000	0.000	0.000	Cont	Cont	
C2503 Initial Issue	2.007	1.403	1.307	0.000	0.000	0.000	0.000	0.000	Cont	Cont	
C2667 Shortstop Electronic Protection System	2.928	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.928	
C2928 EIFGSWS (HIMARS)	0.000	17.141	10.891	0.000	0.000	0.000	0.000	0.000	0.000	28.032	
Quantity of RDT&E Articles											

## (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This PE provides modification to Marine Corps Expeditionary Ground Force Weapon Systems to increase lethality, range, survivability and operational effectiveness. It also provides for the development of AAV7A1 reliability, maintainability, operational and safety modifications, improvements in command and control in the ADMS, product improvements to the family of LAVs and the development effort for the LAV-AD variant. The AVTB provides facilities and personnel which perform a broad range of testing, repair and technical services to amphibious vehicles.

This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing and manufacturing development for upgrades of existing systems.

Exhibit R-2, RDTE,N Budget Item Justification

(Exhibit R-2, page 1 of 41)

EX	HIBIT R-2, RDT	&E Budget It	em Justification			DATE:	
		· ·		June 2001			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT	Γ (PE) NAME	AND NO.	
RDT&E, N /BA-7 Operational System Devel	T&E, N /BA-7 Operational System Development					Combat/Supporting Arms Systems	
B. PROGRAM CHANGE SUMMARY	EV2000	EV2004	EV2002				
(II) EV 2004 Procidentic Budgets	FY2000	FY2001	FY2002				
(U) FY 2001 President's Budget:	28.679	22.124	19.088				
(U) Adjustments from the President's Budget							
(U) SBIR/STTR Transfer	-0.450	0.000	0.000				
(U) Execution Adjustment	-0.216	0.000	0.000				
(U) Minor Affordability Adjustment	-0.141	-0.204	-0.514				
(U) Program Adjustment	1.148	17.141	25.361				
(U) FY 2002 President's Budget:	29.020	39.061	43.935				
CHANGE SUMMARY EXPLANATION:							
(U) Funding: See Above.							
(U) Schedule: See Project C2503 In	itial Issua R-2a						
(U) Technical: Not Applicable.	iliai issue it-za.						
COTTECHNICAL NOLADDIIGADIE.							

### CLASSIFICATION:

EX	EXHIBIT R-2a, RDT&E Project Justification									
		•						June 2	2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AN								
	0206623M Marine Corps Ground									
RDT&E, N /BA-7 Operational Sys Dev	Combat/Sup	porting Arm	s Systems		C0021 Assa	0021 Assault Amphibious Vehicle 7A1 (AAV7A1)				
									Cost to	Total
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program
										_
Project Cost	0.385	0.402	0.362	0.000	0.000	0.000	0.000	0.000	Cont	Con
RDT&E Articles Qty										

# (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) The AAV7A1 RDT&E program provides for the development, test and preparation of Engineering Change Proposals (ECPs) to improve the performance, reliability, maintainability and safety of the AAV7A1 Family of Vehicles (FOV). This program also allows for the development of installation kits for the integration of communications and navigation equipment developed for integration into the AAV7A1 FOV.

### PROGRAM ACCOMPLISHMENTS AND PLANS

## FY 2000 Accomplishments:

• (U) \$ 0.385 Provided engineering support for integration of modification kits into AAV7A1 Family of Vehicles.

(U) Total \$ 0.385

### FY 2001 Planned Program

• (U) \$ 0.391 Continue providing engineering support for development and integration of modification kits into AAV7A1 Family of Vehicles.

• (U) \$ 0.011 SBIR: Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

(U) Total \$ 0.402

## FY 2002 Planned Program

• (U) \$ 0.362 Continue providing engineering support for development and integration of modification kits into AAV7A1 Family of Vehicles.

(U) Total \$ 0.362

### **CLASSIFICATION:**

		DATE:				EXHIBIT R-2a, RDT&E Project Justification							
l	June 20						•						
	PROJECT NUMBER AND NAME						_	PROGRAM EL 0206623M Ma	APPROPRIATION/BUDGET ACTIVITY				
	C0021 Assault Amphibious Vehicle 7A1 (AAV7A1)						orting Arms	Combat/Supp	RDT&E, N /BA-7 Operational Sys Dev				
									(U) PROJECT CHANGE SUMMARY:				
						FY2002	FY2001	FY2000	` '				
						0.357	0.406	0.396	(U) FY 2001 President's Budget:				
									(U) Adjustments from the President's Budget:				
								-0.011	(U) SBIR/STTR Transfer				
									(U) Execution Adjustment				
						0.001	-0.004	-0.002	(U) Minor Affordability Adjustment				
						0.004		0.002	(U) Program Adjustment				
						0.362	0.402	0.385	(U) FY 2002 President's Budget:				
									CHANGE SUMMARY EXPLANATION:				
									(U) Funding: See Above.				
									(U) Schedule: Not Applicable.				
									(U) Technical: Not Applicable.				
								Y	(U) B. OTHER PROGRAM FUNDING SUMMAR				
Compl Total Cos	FY 2007 To	FY 2006	FY 2005	FY 2004	FY 2003	FY 2002	FY 2001	FY 2000	Line Item No. & Name				
ntinuing Continuin	0.000	0.000	0.000	0.000	0.000	77.087	82.607	80.703	U) PMC, 202100, AAV PIP				
								FY 2000	(U) B. OTHER PROGRAM FUNDING SUMMAR Line Item No. & Name  (U) PMC, 202100, AAV PIP				

(U) Related RDT&E: PE 0603611M (Marine Corps Assault Vehicles)

## (U) C. ACQUISITION STRATEGY:

These efforts focus on the development of Engineering Change Proposals to improve performance, reliability, maintainability and safety of the Assault Amphibious Vehicle. Contractor support will be acquired using already existing contracts.

(U) D. SCHEDULE PROFILE: N/A

### **CLASSIFICATION:**

CLASSII ICATION.										
EX	HIBIT R-2a, RDT	&E Project Ju	stification				DATE:			
									2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM I 0206623M N			NAME	PROJECT N	UMBER AND	NAME			
RDT&E, N /BA-7 Operational Sys Dev	Combat/Sup	porting Arm	s Systems		C1555 Light Armored Vehicle (LAV) PIP					
									Cost to	Total
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program
Project Cost	7.354	9.759	14.273	0.000	0.000	0.000	0.000	0.000	Cont	Con
RDT&E Articles Qty										

### (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Light Armored Vehicle Family of Vehicles (LAV FOV) consists of seven fielded LAV configurations, and one communications/intelligence-configured asset on an LAV chassis (Mobile Electronic Warfare Support System Collectively, the LAV FOV provides a logistically self-contained, highly mobile, and lethal combined arms combat system to the Marine Air-Ground Task Force (MAGTF). This project funds for the development and testing of modifications falling within the purview of the LAV Service Life Extension Program (SLEP) (See PMC: LAV SLEP (FY 2002-FY 2005)) Product Improvement Program. LAV SLEP will ensure the LAV FOV will be capable of conducting its assigned missions through FY 2015 by enhancing lethality and survivability; reliability, availability, maintainability and durability; as well as reducing operations and support costs. The LAV SLEP will essentially invest in technologies currently existing on newer generations of Light Armored Vehicles and other weapons systems.

### PROGRAM ACCOMPLISHMENTS AND PLANS

### **FY 2000 Accomplishments:**

- (U) \$ 4.400 Developed 5 LAV SLEP operational system prototypes for developmental & operational test and evaluation of SLEP modifications.
- (U) \$ 1.518 Continued study, analysis, and development of existing and other alternative technological solutions for the LAV Service Life Extension Program.
- (U) \$ 0.448 Continued and completed developmental and operational test planning for the LAV Service Life Extension Program Test Planning
- (U) \$ 0.988 Conducted research and development of LAV C2 architectural and systems interoperability requirements.
- (U) Total \$ 7.354

### FY 2001 Planned Program

- (U) \$ 1.200 Complete development of LAV SLEP operational system prototypes for test and evaluation of SLEP modifications.
- (U) \$ 4.252 Commence developmental and operational testing and evaluation of 5 LAV SLEP modification prototypes.
- (U) \$ 2.529 Continue development of LAV Service Life Extension Program to include fielding requirements, training, ILS, future maintenance requirements, and impacts to depot-level maintenance program.
- (U) \$ 1.778 Conduct research and development of LAV RAM projects to include a one time installation and operational test of prototype two-speed transmissions prior to fielding.
- (U) Total \$ 9.759

### FY 2002 Planned Program

- (U) \$ 1.507 Complete developmental and operational testing (DT/OT) of SLEP operational system prototypes for test and evaluation (T&E) of SLEP mods.
- (U) \$ 7.425 Development of 7 Thermal Sight Systems (TSS) prototypes for developmental and operational T&E of TSS modifications.
- (U) \$ 4.054 Continue operational systems developmental and program management requirements for LAV SLEP and TSS.
- (U) \$ 1.287 Conduct research and development of LAV RAM projects.
- (U) Total \$ 14.273

Exhibit R-2a, RDTE,N Project Justification

(Exhibit R-2a, page 5 of 41)

EXHI	IBIT R-2a, RDT&I	E Project Just	ification				DATE:	June 2001		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL 0206623M Ma	_		AME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	Combat/Supp	orting Arms	Systems		C1555 Light A	Armored Veh	icle (LAV) PI	P		
(U) PROJECT CHANGE SUMMARY:										
	FY2000	FY2001	FY2002							
(U) FY 2001 President's Budget:	8.328	9.849	6.219							
(U) Adjustments from the President's Budget:										
(U) SBIR/STTR Transfer	-0.176									
(U) Execution Adjustment	-0.613									
(U) Minor Affordability Adjustment	-0.046	-0.090	-0.206							
(U) Program Adjustment	-0.139		8.260							
(U) FY 2002 President's Budget:	7.354	9.759	14.273							
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.										
(U) B. OTHER PROGRAM FUNDING SUMMA										
Line Item No. & Name (U) PMC, 203800, LAV PIP	FY 2000 1.640	FY 2001 1.693	FY 2002 25.783	FY 2003 0.000	FY 2004 0.000	FY 2005 0.000	FY 2006 0.000	FY 2007 To Compl 0.000 Continuing	Total Cost Continuing	
(U) Related RDT&F: Not Applicable.										

- (U) Related RDT&E: Not Applicable.
- (U) C. ACQUISITION STRATEGY: The LAV Service Life Extension Program (SLEP) is designed to extend the service life of the LAV Family of Vehicles trhough 2015, an increase of 12 to 15 years beyond its original projected useful life. This is being done by utilizing both developmental and off-the-shelf technologies to enhance survivability, lethality, mobility and sustainability while simultaneously reducing the cost of wonership. PM, LAV uses multi-disciplined integrated product teams consisting of engineering, logistical, contracting and financial personnel to manage the SLEP. SLEP contracts have been designed using a winner-take-all methodology in order to reduce costs and encourage competition. PM, LAV retains oversight of the SLEP procurement.
- (U) C. ACQUISITION STRATEGY: The LAV RAM project funds numerous low-dollar, yet extremely important minor modificatins, support equipment and tools and other such projects that increase LAV reliability and readiness while simultaneously reducing operations and support costs. PM, LAV uses multi-disciplined integrated projuct teams consisting of engineering, logistical, contracting and financial personnel to manage RAM projects. The majority of contracts issued under the RAM line are subject to the competitive acquisition process. PM, LAV retains oversight of all LAV RAM projects.

**CLASSIFICATION:** 

E	(HIBIT R-2a, RDT&E Project Justification		DATE:
			June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME 0206623M Marine Corps Ground	PROJECT NUMBER AND	NAME
RDT&E, N /BA-7 Operational Sys Dev	Combat/Supporting Arms Systems	C1555 Light Armored Ve	ehicle (LAV) PIP

# (U) D. SCHEDULE PROFILE:

LAV SLEP

Milestone 0:	1 <sup>st</sup> Qtr, FY 1998	Milestone III:	2 <sup>nd</sup> Qtr, FY 2002
Milestone I:	2 <sup>nd</sup> Qtr, FY 1999	Contract Award:	2 <sup>nd</sup> Qtr, FY 2002
Milestone II:	2 <sup>nd</sup> Qtr, FY 2000	IOC:	1st Qtr, FY 2005
DT / OT:	2 <sup>nd</sup> Qtr, FY 2001	FOC:	1st Qtr, FY 2009

Program Funding Summary	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To	Compl	Total Cost
(APPN, BLI #, NOMEN) (U) RDT&E,N	6.366	7.981	12.986	0	0.000	0.000	0.000	0.000	0.000	Continuing
(U) PMC, BLI# 203800 LAV SLEP	1.640	1.693	25.783	0.000	0.000	0.000	0.000	0.000 C	Continuing	Continuing

R-1 SHOPPING LIST - Item No. 191

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 7 of 41)

**CLASSIFICATION:** DATE: Exhibit R-3 Cost Analysis June 2001 PROJECT NUMBER AND NAME APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT 0206623M Marine Corps Ground Combat/Supporting Arms RDT&E, N /BA 7 Operational Sys Dev **Systems** C1555 Light Armored Vehicle (LAV) PIP **Cost Categories** Performing FY 00 FY 01 FY 02 Contract Total Target (Tailor to WBS, or Sys/Item Method Activity & PY s FY 00 Award FY 01 Award FY 02 Award Cost to Total Value of & Type Cost Cost Date Date Cost Contract Requirements) Location Date Cost Cost Complete Product Development 0.000 Primary Hardware Dev C/FF Dies Div, GM 0.915 0.000 0.915 0.915 0.509 Primary Hardware Dev **CPFF** NRL 0.691 0.000 1.200 1.200 Primary Hardware Dev **CPIF** Metric Systems 4.500 03/00 0.310 0.000 4.810 4.810 Primary Hardware Dev CPFF **GTRI** 0.350 03/00 0.400 2Q01 0.450 0.000 1.200 1.200 Gov't Dev Engineering **MIPR** In-House Product Dev 0.735 0.201 1Q00 0.624 1Q01 0.731 Continuing Continuing **Product Development** Various Other 9.711 0.215 Various 3.000 Various 7.345 Continuing Continuing Subtotal Product Dev 11.870 5.957 4.334 8.526 Continuing Continuing Remarks: Cost Categories FY 00 FY 01 FY 02 Contract Performing Total Target (Tailor to WBS, or System/Item Method Activity & PY s FY 00 Award FY 01 Award FY 02 Award Cost to Total Value of Requirements) & Type Location Cost Cost Date Cost Date Cost Date Complete Cost Contract Support Subtotal Support 0.000 0.000 0.000 0.000 Remarks: R-1 SHOPPING LIST - Item No. 191

## **CLASSIFICATION:**

								DATE:				
							1			June 20	01	
CTIVITY		PROGRAM ELEMENT					PROJEC <sup>*</sup>	T NUMBER	r and na	ME		
		0206623M Marine Corps	Ground C	ombat/S	upporting	Arms						
Sys Dev		Systems					C1555 Li	ght Armor	ed Vehicl	e (LAV) PIP		
Contract	Performing		Total		FY 00		FY 01		FY 02			Target
Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
MIPR	LAV Test Di	r, Yuma Prv Grnd	4.655	0.478	Various	4.429	Various	1.507	,	Continuing	Continuir	ng
			4.655	0.478	3	4.429	)	1.507	'	Continuin	g Continuir	ng
Contract	Performing		Total		FY 00		FY 01		FY 02			Target
Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award		Total	Value of
& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
WR	PMO LAV, 7	acom, MI	23.799	0.919	1Q00	0.996	1Q01	4.240	1Q02	Continuing	g Continuir	ng
			23.799	0.919	)	0.996	3	4.240	)	0.000	29.95	4
				7.354		9.759	)	14.273	В	Continuing	Continuir	ng
				7.354		9.759		14.273	3	Continuing	g Continuir	ng
	Method & Type MIPR Contract	Contract MIPR LAV Test Di  Contract Activity & Location  MIPR LAV Test Di  Contract Performing Activity & Location	O206623M Marine Corps Systems  Contract Performing Method Activity & Location  MIPR LAV Test Dir, Yuma Prv Grnd  Contract Method Activity & Location  Contract Performing Method Activity & Location	Contract Method Activity & Location Cost  Contract MIPR LAV Test Dir, Yuma Prv Grnd 4.655  Contract Method Activity & Performing Cost  MIPR LAV Test Dir, Yuma Prv Grnd 4.655  Contract Method Activity & Py s Cost  Method Activity & Py s Cost  Contract Method Activity & Py s Cost  WR PMO LAV, Tacom, MI 23.799	O206623M Marine Corps Ground Combat/S Systems  Contract Performing Activity & PY's FY 00 & Type Location Cost Cost  MIPR LAV Test Dir, Yuma Prv Grnd 4.655 0.478  Contract Performing Activity & PY's FY 00  Cost Cost  Cost Cost  Cost Cost  Cost Cost  WR Performing Total PY's FY 00 Cost Cost  WR PMO LAV, Tacom, MI 23.799 0.919	Contract   Performing   Activity &   Lav Test Dir, Yuma Prv Grnd   Activity &   Performing   Activity &   Activity &   Performing   Activity &   A	Name	Sys Dev   Systems   Total   Performing   Activity & Performing   Activity & Performing   Activity & Performing   Activity & Performing   Performin	Sys Dev   PROGRAM ELEMENT   0206623M Marine Corps Ground Combat/Supporting Arms   Systems   C1555 Light Armor   Contract   Method   Activity & PY's   FY 00   Award   FY 01   Award   FY 02   Date   Cost   Date   Date	PROGRAM ELEMENT	Sys Dev   PROGRAM ELEMENT   O206623M Marine Corps Ground Combat/Supporting Arms   PROJECT NUMBER AND NAME	CONTract MIPR LAV Test Dir, Yuma Prv Grnd A.655 0.478 A.655 0.478 A.655 Date Cost Date

R-1 SHOPPING LIST - Item No. 191

### CLASSIFICATION:

EXI	HIBIT R-2a, RDT&	E Project Ju	stification				DATE:				
APPROPRIATION/BUDGET ACTIVITY											
RDT&E, N /BA-7 Operational Sys Dev	Arms Sys					C1901 Marin	ne Corps Gro	und Weapon	ry PIP		
									Cost to	Total	
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program	
Project Cost	14.276	7.999	13.815	0.000	0.000	0.000	0.000	0.000	Cont	Con	
RDT&E Articles Qty											

### (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) This Project develops joint and Marine Corps unique improvements to infantry weapons and artillery technology, USMC unique Amphibious Armor Systems (AAS), improvements for the M1A1 Main Battle Tank and support systems, USMC Family of Small Craft, Night Vision Equipment, Underwater Reconnaissance, Family of Raid and Reconnaissance Equipment, Interim Small Unit Remote Scouting System (ISURSS) and monitors national and international weapons developments.

### PROGRAM ACCOMPLISHMENTS AND PLANS

## FY 2000 Accomplishments:

- (U) \$ 0.148 Family of Artillery Munitions (FAM): Supported a production decision for the M795 HE projectile, to include: Weapons Systems Explosive Safety Board testing, program support, and travel. Continued the active monitoring of U.S. Army artillery ammunition development programs in order to leverage off of and influence Army
- (U) \$ 0.163 Family of Improved Mortars: In conjunction with U.S. Army Program Manager for Mortars, conducted concept exploration initiatives to determine the feasibility of alternative concepts for the Pointing Device (PD) for the Mortar Fire Control System (Light) (MFCS). The PD provides precise deflection, elevation, and Global Positioning System interface for the MFCS. Down selection will be made for no more than two alternatives for further development.
- (U) \$ 0.754 <u>Family of Small Craft</u>: Provided Fault Analysis and Fault Isolation (FAFI) for the Riverine Assault Craft (RAC) through MCPD, Fallbrook, CA. Engineering support for a raw water cooling system.
- (U) \$ 1.138 Fire Support Mods: Continued joint participation in artillery and fire support improvement projects including joint sustainment of the M198 Howitzer and Meteorological Measuring Set (MMS). Continued software analysis and integration. Provided support to the Marine Corps Warfighting Lab for the development, evaluation and rapid transition of fire support initiatives.
- (U) \$ 0.461 Improved Recovery Vehicle: Conducted Landing Craft Air Cushion (LCAC) testing of Improved Recovery Vehicle, and design, fabrication and testing of deep water fording equipment.
- (U) \$ 2.050 Infantry Wpns Mods: Continued joint participation and Marine Corps unique activities for evaluation of safety, lethality, and technology improvements for Marine Corps infantry/reconnaissance individual and crew served weapons. Pursued solutions to integrate weapons systems with existing and planned night vision and sighting technologies including revisions of mounts and interfaces.
- (U) \$ 1.647 M1A1 Firepower Enhancements: Conducted trade studies identifying the most cost effective upgrades to the tank fire control system. Initiated preliminary design of integrated Non-Developmental Item (NDI) package to include improved thermal sight and north-finding/far target location capability. Conduct fabrication/ testing of prototype integrated systems. Developed preliminary system specification, interface control documents, item development specification, conduct System Requirements
- (U) \$ 4.472 M1A1 Firepower Enhancements (Forward Finance): Continue preliminary design of NDI package to include improved thermal sight and north-finding/far target location capability.

	EXH	BIT R-2a, RDT&E Project Justification		DATE:
				June 2001
APPROPRIAT	ION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		
		0206623M Marine Corps Ground Combat/Suppo	_	
	A-7 Operational Sys Dev	Arms Sys		01 Marine Corps Ground Weaponry PIP
• (U)\$	· · · · · · · · · · · · · · · · · · ·	onducted joint evaluation of modifications including compone		, Advanced Fire Control Systems, Survivability Systems,
		Cost Reduction opportunities, Combat Identification and other		
• (U) \$				on of safety, lethality and technology improvements for Marine
				ons Center (NSWC), Crane, IN. Participated with ARMY PM-Nigh
(TT) di				avel/Temporary Assignment of Duty (TAD) to support enhanced
• (U) \$	<u></u>	at (TWS)[AN/PAS-13]: Successfully completed Marine Corps		
• (U) \$				-led engineering, management, and development (EMD) of the
		nator Rangefinder (LLDR). Completed initial systems integra		The state of the s
	•	remental refinement, coding, evaluation and Independent Veri with emerging Marine Corps tactical Command, Control, Comm		
(T) T . 1 0		of the energing Marine Corps tactical Command, Control, Comm	iumcations, Con	iputers, & interrigence (C41) architecture and with other fire
(U) Total \$	14.276			
FY 2001 Plann	od Program			
• (U) \$		nitions (FAM): Support a production decision for the Modula	Artillery Charg	ge System, to include Weapons Systems Explosive Safety Review
(-)+		upport, and travel. Continue the active monitoring of U.S. Arr		
	influence Army develop			
• (U)\$	0.581 Family of Small Craft:	Provide Fault Analysis and Fault Isolation (FAFI) for the Rive	rine Assault Cra	ft (RAC) and the Rigid Raiding Craft (RRC) and associated
	* *	Ilbrook, CA. Engineering analysis and development for the re-		· ·
• (U)\$		ntinue joint participation in artillery and fire support improven		
	-		nd service life ex	tension efforts. Provide support to the Marine Corps Warfighting
	•	, evaluation and rapid transition of fire support initiatives.		
• (U)\$		Continue joint participation and Marine Corps unique activities	•	
				ons systems with existing and planned night vision and thermal
		-		n into the Integrated Infantry Combat System (IICS) to enhance the
• (II) ¢		and safety of the Combat System. Supporting CMC initiative	-	· ·
• (U)\$	Finalize fabrication//test		merude improv	ed thermal sight, and north-finding/ far target location capability.
• (U)\$		T 2 T2	aliminary design	of NDI package to include improved thermal sight and north-
(0)\$	finding/far target locatio		omminary design	i of 14D1 package to include improved dictinal sight and north-
	imanig/iai target ioeatio	ii oupuointij.		

# **CLASSIFICATION:**

	EXI	HIBIT R-2a, RDT&E Project Justification	DA.	TE:
				June 2001
APPROPRIATIO	N/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		
		0206623M Marine Corps Ground Combat/Supporting		
RDT&E, N/BA-7	Operational Sys Dev	Arms Sys	C1901 Marine C	corps Ground Weaponry PIP
• (U) \$	0.263 <b>M1A1 Armor Mods</b> : 0	Continue joint evaluation of modifications including Component Enhance	nents, Advanced Fir	re Control Systems, Survivability Systems, Combat
	Identification and other	rs.		
• (U)\$	0.443 Night Vision Mod Lin	ne: Continue joint participation and Marine Corps unique activities for eva	luation of safety, letl	hality and technology improvements for Marine
	1 0	evices. Provides for In Service Engineering Activity (ISEA) at NSWC, Cra		
	enhancements for Imag	ge Intensification I2. Travel/TAD to support enhanced systems developme	nt and review of test	S.
• (U) \$	0.113 Thermal Weapons Signature 1.113	ght (TWS)[AN/PAS-13]: Provide for joint participation in Pre-Planned P	oduct Improvement	(P3I) for TWS – remote image transfer, laser range
		mounting brackets for future small arms weapons, vertical angle measure		^
• (U)\$		gnation and Hand-Off System (TLDHS): Continue incremental refinem		
		nteroperability with the emerging Marine Corps tactical C4I architecture a	_	pport platforms and agencies. Conduct initial
	•	uation (IOT&E) of the LLDR and artillery/close-air-support (JVMF formation)	•	
• (U)\$	· · · · · · · · · · · · · · · · · · ·	amural program reserved for Small Business Innovation Research assessm	ent in accordance wi	ith 15 USC 638.
(U) Total \$	7.999			
FY 2002 Planned	Program			
• (U)\$		ent (AEROS): Funds will be used for engineering support and to purchase	e candidate systems	for use in a down select. Systems will be used for
		and further down select to a single EMD system.		
• (U) \$	·	<u>lod</u> : Conduct analysis of U.S. Army led False Target Location Modification	ns (FTLM) engineer	ring change proposal (ECP) package relative to
• (U) \$		Develop Milestone decision documentation for FTLM ECP. [unitions (FAM): Support a production decision for the Modular Artillery	Charge System to i	includa: Waanone Systems Evnlosiya Safaty Paviayy
• (0)\$		support, and travel. Continue the active monitoring of U.S. Army artiller		
	influence army develop	**	y animumation develo	opinent programs in order to leverage our or and
• (U) \$		t: Provide Fault Analysis and Fault Isolation (FAFI) for the Riverine Assa	alt Craft (RAC) and	Rigid Raiding Craft and associated equipment at
(5) \$	·	Engineering analysis and development for upgraded weapons systems/s	, ,	ringia randing crait and associated equipment at
• (U)\$		Continue joint participation in artillery and fire support improvement proje	~	ntinue joint sustainment of the M198 Howitzer and
		g System to include safety modifications and service life extension efforts		
	development, evaluation	on and rapid transition of fire support initiatives.		
• (U)\$	0.820 Infantry Wpns Mods:	: Continue joint participation and Marine Corps unique activities for evalu	ation of safety, letha	lity, and technology improvements for Marine Corps
	infantry/reconnaissance	e individual and crew served weapons. Pursue solutions to integrate weap	ons systems with exi	isting and planned night vision and sighting
	technologies including	revisions of mounts and interfaces. Continue weapon system integration	into the Integrated In	nfantry Combat System (IICS) to enhance the
	efficiency, effectivenes	ss and safety of the Combat System.		
• (U) \$	0.501 Interim Small Unit R	emote Scouting System (ISURSS): Funds will be used for Operational S	ystem Development	, Contractor support and Program Office Travel.
• (U) \$	7.762 M1A1 Firepower Enh	nancement: Conduct comparative assessments of competing designs and of	onduct system desig	n review to finalize system performance specification
	Perform Final Integrati	on and Prove out. Procurement of test articles, conduct developmental te	t and evaluation, pre	e-production technical reviews/audits, and logistical

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 12 of 41)

	EXHI	BIT R-2a, RDT&E	Project Just	fication			DATE:			
ADDDODDIATIO	ALIDI IDOET A OTIVITY	DDOODAME		ADED AND NAME		T	June 2001			
APPROPRIATIC	N/BUDGET ACTIVITY			MBER AND NAME <b>Ground Combat/Sup</b> p	oorting					
RDT&F N/BA-7	Operational Sys Dev	Arms Sys	iiiie Corps	Ground Combat/Sup	Jorting	C1901 Marine Corps Ground Weaponry PIP				
• (U) \$	0.000 M1A1 Firepower Enhan		Financing 1.	190 of FY01 Funds)		O 1301 Marii	ne oorps oround weaponry i n			
• (U)\$					difications in	aludina Compo	nent Enhancements, Advanced Fire Control Systems,			
• (0)\$	Survivability Systems, C				inications in	cluding Compo	ment Emidicements, Advanced The Control Systems,			
• (U)\$			•		vities for eva	luation of safety	y, lethality and technology improvements for Marine			
(ε) ψ							with ARMY PM-Night Vision at Ft Belvoir on new			
	enhancements for Image									
• (U)\$	0.118 Thermal Weapons Sigh	t (TWS)[AN/PAS-1	<b>13]</b> : Provide f	or joint participation in P3	I for TWS –	remote image t	ransfer, laser range finder, aimport reticle, mounting			
•	brackets for future small	arms weapons, verti	cal angle mea	surement, automated aim	port reticle.					
• (U) \$							luation and IV&V of the TLDHS-specific software			
				-	rchitecture ar	nd with other fir	re support platforms and agencies. Conduct IOT&E of the			
	LLDR and artillery/close	-air-support (JVMF	format) funct	onality.						
(U) Total \$	13.815									
(U) Adjustments (U) SBIR/S' (U) Execution (U) Minor A (U) Program (U) FY 2002 Pre CHANGE (U) Function (U) Sche	esident's Budget: If from the President's Budget: ITR Transfer on Adjustment Iffordability Adjustment on Adjustment esident's Budget: SUMMARY EXPLANATION: Iding: See Above. In Additional Control of the Adjustment esident's Budget: SUMMARY EXPLANATION: Iding: See Above. In Adjustment	FY2000 13.244 -0.200 -0.067 1.299 14.276	FY2001 8.073 -0.074 7.999	FY2002 7.878 -0.242 6.179 13.815						
(U) Tech	nical: Not Applicable.									

### **CLASSIFICATION:**

EXHIBI	T R-2a, RDT&E	Project Jus	tification				DATE:				
								June 2001			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT N	JMBER AND	NAME							
	0206623M M	arine Corps	Ground Co	mbat/Supp	orting						
RDT&E, N /BA-7 Operational Sys Dev	Arms Sys					C1901 Marine Corps Ground Weaponry PIP					
(U) B. OTHER PROGRAM FUNDING SUMMAR											
Line Item No. & Name	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost		
(U) PMC (BLI#206200) Improved Recovery Veh	0.000	42.232	21.026					0.000	63.258		
(U) PMC (BLI#206300) Mod Kits (Tracked Veh)	82.256	20.625	3.825					Continuing	Continuing		
(U) PMC (BLI#220900) Mod Kits (Arty & Other)	3.674	3.855	1.478					Continuing	Continuing		
(U) PMC (BLI#222000) Under \$5 Million	5.893	0.411	0.274					Continuing	Continuing		
(U) PMC (BLI#233400) Modular Weapon System			7.501					0.000	7.501		
(U) PMC (BLI#462000) <\$5M (Comm&Electrnics)	10.131	8.244	9.028					Continuing	Continuing		
(U) PMC (BLI#473300) Fire Support Systems	4.965	15.203	16.152					Continuing	Continuing		
(U) PMC (BLI#475000) Items Under \$5M (Intel)	2.225	0.398	1.654					Continuing	Continuing		
(U) PMC (BLI#493000) Night Vision Equipment	12.900	21.155	22.374					Continuing	Continuing		
(U) PMC (BLI#643400) Amphibious Raid Equip			2.349					Continuing	Continuing		
(U) PMC (BLI#667000) Items Less Than \$5M	16.160	6.530	7.684					Continuing	Continuing		

## (U) Related RDT&E:

(U) All Ground Weapons and Ground Ammunition Systems: Army, Navy, Air Force, Coast Guard, and Special Operations Command

# (U) C. ACQUISITION STRATEGY:

(U) This line covers programs ranging from Off-The-Shelf modifications to Developmental Items. TLDHS acquires the Laser Locator Designator and Rangefinder being developed by the Army. This component is combined with a radio and hand-held computer running software developed by the Marine Corps. Fire Power Enhancement used selected upgrades from Army developmental programs to create a system that more readily meets Marine Corps requirements. Modification covers safety, reliability, and technology up-grades to meet Marine Corps requirements. M1A1 Fire Power Enhancement - Competively Awarded 2 Cost Plus Firm Fixed contracts to conduct parallel design, integration and demonstration of NDI technology for the M1A1 Firepower Enhancement. Down select to a single contractor with the most promising concept, continuing with design development until production ready. Finally, transition to production with the winning design by exercising a Firm Fixed Price contract option.

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

0206623M Marine Corps Ground Combat/Supporting

RDT&E, N /BA-7 Operational Sys Dev

Arms Sys

DATE:

June 2001

C1901 Marine Corps Ground Weaponry PIP

# (U) D. SCHEDULE PROFILE:

# **AEROS PROGRAM**

(AN/GVS-5 Replacement)

		Г	21	001		1	20	102		1	20	03			2	004			20	05	
ın	Task Name	<u> </u>	1 2	_	T 4	+ 4	1 2	3	Ι 4	-	2	3	T 4	4	T 2	3	T 4	1	2	3	Т а
ID_		<del>  </del>	1 -	3	4	1 1	1 4	1 3	4	1 1		_ J	4	1 1		1 3	4	1 1			4
	MS 0			•																	
2	Issue RFP				•																
3	Source Selection (down select candidates)																				
4	Procure Test Items					•	•														
5	Developmental Testing/LUT																				
6	MSIJI							•													
7	Exercise EMD Contract Option	1								<b>*</b>											
8	S/W Development																				
9	Software DT																				
10	от	1																			
11	MS III	1										•									
12	Exercise Contract Production Option												•	•							
13	Production (Thru FY 09)																				
14	loc	1																<b>.</b>			

Program Funding Summary (APPN, BLI #, NOMEN)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U) RDT&E,N			1.460	0.000				0.000	Continuing
(U) PMC, BLI# 493000 Nt Vision Eq					0.000	0.000	0.000	0.000 Continuing	Continuing
(U) PMC, BLI# 493000 Nt Vision Eq					0.000	0.000	0.000	0.000 Continuing	Continui

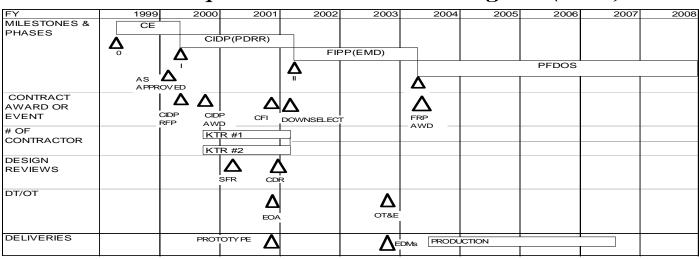
R-1 SHOPPING LIST - Item No. 191

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 15 of 41)

### **CLASSIFICATION:**

IT R-2a, RDT&E Project Justification		DATE:
		June 2001
PROGRAM ELEMENT NUMBER AND NAME		
0206623M Marine Corps Ground Combat/Supporting		
Arms Sys	C1901 Marin	ne Corps Ground Weaponry PIP
	PROGRAM ELEMENT NUMBER AND NAME 0206623M Marine Corps Ground Combat/Supporting	PROGRAM ELEMENT NUMBER AND NAME  0206623M Marine Corps Ground Combat/Supporting

# M1A1 Firepower Enhancement Program (FEP)

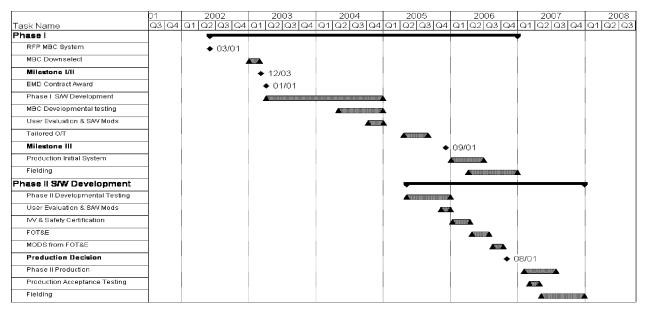


Program Funding Summary (APPN, BLI #, NOMEN)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U) RDT&E,N (U) PMC BLI# 206300 Mod Kits (Tracked	6.119	3.582	7.762	0.000	0.000	0.000	0.000	0.000 0.000 Continuing	Continuing Continuing

R-1 SHOPPING LIST - Item No. 191

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 16 of 41)

	ЕХПВІ	T R-2a, RDT&E Project Justification		DATE: June 2001					
				Julie 200 i					
APPROPI	RIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME							
		0206623M Marine Corps Ground Combat/Supporting							
RDT&E, N	N /BA-7 Operational Sys Dev	Arms Sys	C1901 Mari	ne Corps Ground Weaponry PIP					
	MORTAR BALLISTIC COMPUTER								

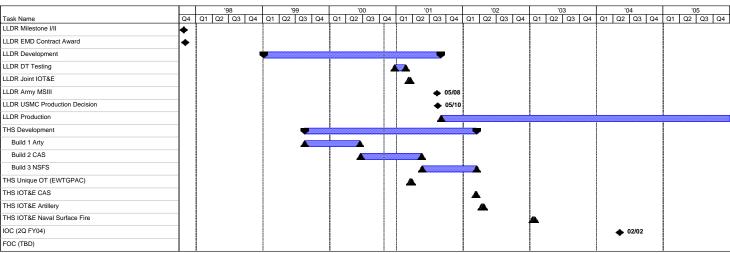


Program Funding Summary (APPN, BLI #, NOMEN)	FY 2000	FY 2001	<u>FY 2002</u>	<u>FY 2003</u>	FY 2004	FY 2005	<u>FY 2006</u>	FY 2007 To Compl	Total Cost
(U) RDT&E,N				0.000	0.000	0.000	0.000	0.000 Continuing	Continuing
(U) PMC BLI# 473300 Fire Support Systems							0.000	0.000 Continuing	Continuing

### **CLASSIFICATION:**

02/1001110/1110111			
EX	(HIBIT R-2a, RDT&E Project Justification		DATE:
			June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		
	0206623M Marine Corps Ground Combat/Supporting		
RDT&E, N /BA-7 Operational Sys Dev	Arms Sys	C1901 Marin	e Corps Ground Weaponry PIP

# Target Location Designation Hand-off System (TLDHS)



<u>LLDR</u> - Lightweight Laser Designator Rangefinder <u>THS</u> - Target hand-off System <u>CAS</u> - Close Air Support

Program Funding Summary	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(APPN, BLI #, NOMEN) (U) RDT&E,N	2.593	0.728	0.349					0.000	Cont.
(U) PMC BLI# 473300 Fire Support Systems		12.231	16.152	0.000	0.000			0.000	Cont.

R-1 SHOPPING LIST - Item No. 191

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 18 of 41)

# **CLASSIFICATION:**

EXHI	BIT R-2a, RDT&E Project Justification		DATE:
			June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		
	0206623M Marine Corps Ground Combat/Supporting		
RDT&E, N /BA-7 Operational Sys Dev	Arms Sys	C1901 Marii	ne Corps Ground Weaponry PIP

# THERMAL WEAPON SIGHT (TWS)

				–		· - · ·		,	- '' '	- /			
Fiscal Year	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	F Y 09	FY 10	Total
OMNI Cntr Awd (Jul 98)													
USA MS II (Aug 98)													
OT&E (Bridge) USA		Fel Fel	00 – Mar	00									
IOT&E (USMC)		•	Aug 00										
Indep Log Assessment			Sep 00										
MCOTEA IER			Sep 00	- Nov 00									
ULSS			Sep	00 - Jan 01									
USMC ADM (MS I/III)			Dec 00										
Awd OMNI Cntr Options			Dec 00	Oct 01	Oct 02	Oct 03	Oct 04						
TWS Production									Dec 00 - S	ер 06			
Fielding Decision				Nov 01									
IO C				Dec 01	ı								
FOC - Medium						Oct 03							
FOC - Heavy									Oct 06				

Program Funding Summary (APPN, BLI #, NOMEN)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U) RDT&E,N	0.154	0.113	0.118	0.000	0.000	0.000		0.000	Cont.
(U) PMC, BLI# 493000 Nt Vision Eq		14.218	18.739	0.000	0.000	0.000		0.000	Cont.

## **CLASSIFICATION:**

								DATE:				
Exhibit R-3 Cost Analysis		1					T			June 200	1	
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM ELEMENT					PROJEC	T NUMBER	R AND NA	ME		
RDT&E, N /BA 7 Operation		0206623M Marine Corp		combat/S		g Arms Sys		arine Corp		Weaponry P	IP	T=
Cost Categories	Contract	Performing	Total	E) ( 0.0	FY 00	E) ( 0 (	FY 01	E) ( 00	FY 02		<b>-</b>	Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements) PRODUCT DEVELOPMENT	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
											0.000	
Primary Hardware Dev											0.000	
Ancillary Hardware Dev											0.000	
Systems Engineering											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
AN/TPQ-46	RCP	TBD						0.201	1Q02	0.000		
Fam Impr Mortars	MIPR	PM Mortars, Picatinny NJ		0.155						Continuing		
Fam Small Craft Mods	WR/RCP	NSWC, Crane IN	0.250			0.396		0.402		Continuing	,	
Fire Spt Mods	WR	Marine Det, Ft Sill, OK	0.080			0.050		0.050		Continuing	•	<u> </u>
Fire Spt Mods	MIPR	USArmy CECOM, Ft Monmouth NJ	0.050	0.155		0.198		0.064	1Q02	Continuing	Continuing	3
Fire Spt Mods	WR	NSWC, Crane IN			1Q00	0.030				Continuing	Continuing	3
IRV	MIPR	UDLP, York, PA		0.058			2Q02			0.000		
Inf Weapon Mods	WR/RCP	MCCDC, Quantico, VA	0.075	0.452	3Q00	0.198	1Q01	0.092	1Q02	Continuing	Continuing	<b>a</b>
Inf Weapon Mods	MIPR	TACOM, Warren MI	0.008							0.000	0.008	0.00
ISURSS	RCP	TBD					2Q01	0.374	TBD	Continuing	Continuing	g
M1A1 Firepower	RCP	TBD		5.372	07/00	2.807		7.137	2Q02	Continuing	Continuing	g
M1A1 Firepower	MIPR	Nt Vision Lab, Ft Belvoir, VA		0.200	1Q00	0.200	2Q01	0.200	2Q02	Continuing	Continuing	9
M1A1 Mods	RCP	Ctr Nav Anl, Alexandria, VA		0.300	2Q00		1Q01			Continuing	Continuing	9
M1A1 Mods	WR/RCP	TACOM, Warren MI	0.193		2Q00		1Q01		2Q02	Continuing	Continuing	9
M1A1 Mods	WR/RCP	TBD		0.023	2Q00	0.153	1Q01	0.188	1Q02	Continuing	Continuing	a
Nt. Vision Mod	WR/RCP	NSWC, Crane IN		0.045	2Q00	0.050	2Q01	0.041	1Q02	Continuing		
Nt. Vision Mod	MIPR	Nt Vision Lab, Ft Belvoir, VA		0.050		0.100		0.100		Continuing	,	
TWS	MIPR	Nt Vision Lab, Ft Belvoir, VA	0.225			0.018		0.018		Continuing		
TWS	RCP	MCSC, Quantico, VA	0.138		2Q00		1Q01			Continuing	,	
TLDHS	RCP	Synetics, Inc King George, VA	31.00	1.709		0.223		0.126	1Q02	0.000	,	
TLDHS	MIPR	Nt Vision Lab, Ft Belvoir, VA	2.031	00						0.000		
Subtotal Product Dev	.,,,,		3.050	9.121		4.373		8.993		Continuing		
Remarks:	_	1	0.000	J !	1	1.070	1	0.000	1	- Co.minaning	00.10.10	2

R-1 SHOPPING LIST - Item No. 185

									DATE:				
Exhibit R-3 Cost Analysis											June 200	01	
APPROPRIATION/BUDGET A	CTIVITY		PROGRAM ELEMENT					PROJEC <sup>*</sup>	T NUMBER	R AND NAM		<u> </u>	
RDT&E, N /BA 7 Operational	Sys Dev		0206623M Marine Corp	s Ground (	ombat/S	upporting	Arms Sys	C1901 Ma	arine Corp	s Ground	Weaponry P	IP	
Cost Categories	Contract	Performing		Total		FY 00		FY 01	•	FY 02			Target
(Tailor to WBS, or System/Item	Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
SUPPORT													
AN/GVS-5	WR	MCSC, Quai	ntico, VA						0.204	1Q02	1.089	1.293	1.333
	RCP	BAEST, Staf							0.109		0.111	0.220	
AN/TPQ-46	RCP	BAEST, Staf	ford, VA						0.150	1Q02	0.000	0.150	0.150
AN/TPQ-46	WR	MCSC, Quai	ntico, VA						0.015	1Q02	0.000	0.015	0.015
Fam Artillery Munitions	WR/RCP	BAEST, Staf	ford, VA		0.059	Various	0.049	10/01	0.046	1Q02	Continuing	Continuing	
	RCP	ALS, Inc, Du	mfries, VA	0.040	0.090	Various					0.000	0.130	0.130
Fam Small Craft Mods	RCP	BAEST, Staf	ford, VA					Various	0.050	1Q02	Continuing	Continuing	
Fam Small Craft Mods	WR	MCSC, Quai	ntico, VA	0.050	0.046	1Q00	0.050		0.050	10/05	Continuing	Continuing	
Fire Supt Mods	WR/RCP	BAEST, Staf	ford, VA		0.373	Various	0.673		0.644	1Q02	Continuing	Continuing	
	RCP	ALS, Inc, Du	mfries, VA	0.205	0.247	Various					0.000	0.452	0.452
Fire Supt Mods	WR	NSWC, Dah	lgren, VA	0.015	0.135	Various					Continuing	Continuing	
Fire Supt Mods	MIPR	TACOM, Ro	ck Island, IL				0.030	1Q00			Continuing	Continuing	
	RCP	ALS, Inc, Du	mfries, VA		0.050	Various					0.000	0.050	0.050
IRV	WR	MCSC, Quai	ntico, VA		0.093	1Q00					Continuing	Continuing	
Inf Wpns Mods	WR	MCSC, Quai		0.097	0.120		0.130	1Q01	0.130	1Q02	Continuing	Continuing	
	RCP	ALS, Inc, Du	mfries, VA	0.079	0.262	Various					0.000	0.341	0.455
	RCP	BAEST, Staf			0.096		0.343		0.350		Continuing	Continuing	
	WR/RCP	NSWC, Dah		0.290	0.290	Various	0.200		0.136		Continuing	Continuing	
Inf Wpns Mods	WR	MCLB, Albar	na, GA	0.025	0.025	Various	0.025	1Q01	0.025	1Q02	Continuing		
Inf Wpns Mods	WR/RCP	NSWC, Crar			0.181	Various	0.031	1Q01	0.012	1Q02	Continuing		
Inf Wpns Mods	WR/RCP	CSS, Panam	na City, FL		0.461	Various					Continuing	Continuing	
ISURSS	WR/RCP	BAEST, Staf	ford, VA			Various			0.127	1Q02	Continuing	Continuing	
M1A1 Firepower	RCP	ALS, Inc, Du			0.064	Various					0.000		
M1A1 Firepower	RCP	BAEST, Staf	ford, VA			Various	0.064	2Q01	0.361	2Q02	Continuing	Continuing	
	MIPR	GDLS, Warr			0.472		0.500	1Q01			Continuing		
	RCP	ALS, Inc, Du		0.040	0.040	Various					0.000		
	RCP	BAEST, Staf						Various	0.040		Continuing		
	WR	MCSC, Quai	ntico, VA	0.062		Various	0.050		0.050	1Q02	Continuing		
MBC	WR	MCSC, Quai	ntico, VA	0.075							0.000	0.075	0.075

Nt Vision Mod RCP ALS, I Nt Vision Mod RCP BAES TWS WR MCSC TWS RCP ALS, I TWS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR MCCT TAIL TENT WR METHOD TAIL TENT WR MCCT THE TENT WR THE TENT WR MCCT THE TENT WR MCT THE TENT WR MCCT TH	PROGRAM ELEMENT  0206623M Marine Corps C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA C, Quantico, VA	0.060 0.090 0.092 0.080 0.599	0.075 0.055 0.042 0.095 0.073	1Q00 Various Various	0.121 0.147 0.030 0.030	C1901 Ma	0.125 0.150 0.030	S Ground Various	Weaponry Pl Continuing 0.000 Continuing	P Continuing 0.055	
RDT&E, N /BA 7 Operational Sys Dev  Nt Vision Mod WR MCSC Nt Vision Mod RCP ALS, I Nt Vision Mod RCP BAES' TWS WR MCSC TWS RCP ALS, I TWS RCP BAES' TLDHS RCP BAES' TLDHS RCP BAES' TLDHS WR MCSC TABLE Developmental Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCCT Inf Wpn Mods WR MCCT M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	O206623M Marine Corps C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA C, Quantico, VA	0.060 0.090 0.092 0.080 0.599	0.075 0.055 0.042 0.095 0.073	1Q00 Various Various	0.121 0.147 0.030 0.030	C1901 Ma  Various  Various	0.125 0.150 0.030	S Ground Various	Weaponry Pl Continuing 0.000 Continuing	Continuing 0.055	
Nt Vision Mod WR MCSC Nt Vision Mod RCP ALS, I Nt Vision Mod RCP BAES TWS WR MCSC TWS RCP ALS, I TWS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR MCCT TALE TEMPORATION WR MCCT TALE TEMPORATION WR MCCT TALE TEMPORATION WR MCCT TEMPORATION WR MCCT THE WR THE WR MCCT THE	C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.060 0.090 0.092 0.080 0.599	0.075 0.055 0.042 0.095 0.073	1Q00 Various Various	0.121 0.147 0.030 0.030	Various Various	0.125 0.150 0.030	Various 1Q02	Continuing 0.000 Continuing	Continuing 0.055	
Nt Vision Mod WR MCSC Nt Vision Mod RCP ALS, I Nt Vision Mod RCP BAES TWS WR MCSC TWS RCP ALS, I TWS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR MCCT TABLE WR MCT TABLE WR MCCT TABLE WR TABLE WR MCCT TABLE WR MCCT TABLE WR MCCT TABLE TABLE WR TABLE WR TABLE THE TABLE THE TABLE THE TABLE THE TABLE TABL	C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.060 0.090 0.092 0.080 0.599	0.075 0.055 0.042 0.095 0.073	1Q00 Various Various	0.121 0.147 0.030 0.030	Various Various	0.125 0.150 0.030	Various 1Q02	Continuing 0.000 Continuing	Continuing 0.055	
Nt Vision Mod RCP BAES TWS WR MCSC TWS RCP ALS, I TWS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR MCSC TLDHS WR NSWC Subtotal Support Remarks:  Cost Categories Contract (Tailor to WBS, or System/Item Method Requirements) & Type Locati T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC IIF WPN Mods WR MCOT III WPN Mods WR MCCC M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	ST, Stafford, VA C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.090 0.092 0.080 0.599	0.042 0.095 0.073	Various Various	0.030	Various	0.030		Continuing	0.055	
Nt Vision Mod RCP BAES TWS WR MCSC TWS RCP ALS, I TWS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR MCSC TLDHS WR NSWC Subtotal Support Remarks:  Cost Categories Contract (Tailor to WBS, or System/Item Method Requirements) & Type Locati T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT Inf Wpn Mods WR MCCC M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	ST, Stafford, VA C, Quantico, VA Inc, Dumfries, VA ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.090 0.092 0.080 0.599	0.042 0.095 0.073	Various Various	0.030	Various	0.030			0	0.055
TWS RCP ALS, I TWS RCP BAES TLDHS RCP ALS, I TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR NSWC  Subtotal Support Remarks:  Cost Categories Contract (Tailor to WBS, or System/Item Method Requirements) T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC IRV WR CSS, I Inf Wpn Mods WR MCCC M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	Inc, Dumfries, VA ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.090 0.092 0.080 0.599	0.095 0.073 0.080	Various	0.030			Various		Continuing	
TWS RCP BAES TLDHS RCP ALS, I TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR NSWC  Subtotal Support Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements) T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT Inf Wpn Mods WR MCCD Inf Wpn Mods WR MCCD M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.092 0.080 0.599	0.073	Various		Various			Continuing	Continuing	
TWS RCP BAES TLDHS RCP ALS, I TLDHS RCP BAES TLDHS RCP BAES TLDHS WR MCSC TLDHS WR NSWC  Subtotal Support Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements) T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	ST, Stafford, VA Inc, Dumfries, VA ST, Stafford, VA C, Quantico, VA	0.080 0.599	0.080			Various			0.000	0.185	
TLDHS RCP BAES TLDHS WR MCSC TLDHS WR NSWC  TLDHS WR NSWC  Subtotal Support  Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements)  T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT Inf Wpn Mods WR MCCC M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	ST, Stafford, VA C, Quantico, VA	0.080 0.599	0.080				0.050	Various	Continuing	Continuing	
TLDHS RCP BAES TLDHS WR MCSC TLDHS WR NSWC Subtotal Support Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements) T&E Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT Inf Wpn Mods WR MCCC M1A1 Mods MIPR ARDE M1A1 Mods MIPR ARDE	ST, Stafford, VA C, Quantico, VA	0.599							0.000	0.165	0.183
TLDHS WR NSWO  Subtotal Support  Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements) & Type Location  T&E  Developmental Test & Eval  Operational Test & Eval  AN/GVS-5 Replcmnt MIPR AMCO Family Arty Mun WR/RCP NSWO Family Small Craft Mods WR NSWO Fire Spt Mods WR MCOT  IRV WR CSS, Inf Wpn Mods WR MCOT  Inf Wpn Mods WR MCCE  M1A1 Mods MIPR ARDE  M1A1 Mods WR MCOT		0.599			0.117	Various	0.045	Various	0.000	0.162	0.180
TLDHS WR NSWO  Subtotal Support  Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements) & Type Locati  T&E  Developmental Test & Eval  Operational Test & Eval  AN/GVS-5 Replcmnt MIPR AMCO Family Arty Mun WR/RCP NSWO Family Small Craft Mods WR NSWO Fire Spt Mods WR MCOT  IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE  M1A1 Mods MIPR ARDE  M1A1 Mods WR MCOT				Various	0.083		0.013	Various	0.000	0.256	0.256
Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements)  T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt Family Arty Mun Family Small Craft Mods WR Fire Spt Mods IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods MIPR MIPR MCCE M1A1 Mods MIPR ARDE MIPR ARDE			0.371	Various					0.000	0.970	0.970
Remarks:  Cost Categories (Tailor to WBS, or System/Item Method Requirements)  T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt Family Arty Mun Family Small Craft Mods WR Fire Spt Mods IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods MIPR MIPR MCCE M1A1 Mods MIPR ARDE MIPR ARDE		1.899	3.943		2.763		2.912				
(Tailor to WBS, or System/Item Method Requirements)  T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT							1	'			
(Tailor to WBS, or System/Item Method Requirements)  T&E  Developmental Test & Eval Operational Test & Eval AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT	prmina	Total		FY 00		FY 01		FY 02			Target
Requirements) & Type Location  T&E  Developmental Test & Eval  Operational Test & Eval  AN/GVS-5 Replcmnt MIPR AMCCOMMING MRCP NSWCOMMING MRCOMMING MRCOMMIN		PY s	FY 00			Award			Cost to		Value of
T&E  Developmental Test & Eval  Operational Test & Eval  AN/GVS-5 Replcmnt  Family Arty Mun  Family Small Craft Mods  Fire Spt Mods  IRV  WR  WR  MCOT  Inf Wpn Mods  M1A1 Mods  M1PR  MIPR  AMCC  WR  MIPR  AMCC  MIPR  AMCC  MIPR  AMCC  MIPR  ARDE  MIPR  MICOT  MITAT  MIPR  MIP		Cost	Cost	Date		Date				Cost	Contract
Operational Test & Eval  AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT									•		
Operational Test & Eval  AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT										0.000	
AN/GVS-5 Replcmnt MIPR AMCC Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT										0.000	
Family Arty Mun WR/RCP NSWC Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, I Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT	OM, Huntsville, AL						1.147		0.000	1.147	1.147
Family Small Craft Mods WR NSWC Fire Spt Mods WR MCOT IRV WR CSS, I Inf Wpn Mods WR MCOT Inf Wpn Mods WR MCCE M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT	C, Crane, IN		0.089	1Q00	0.217	1Q01	0.222	1Q02	Continuing	Continuing	
Fire Spt Mods         WR         MCOT           IRV         WR         CSS, I           Inf Wpn Mods         WR         MCOT           Inf Wpn Mods         WR         MCCD           M1A1 Mods         MIPR         ARDE           M1A1 Mods         WR         MCOT	C, Crane, IN	0.063			0.085		0.092	1Q02	Continuing	Continuing	
IRV         WR         CSS,           Inf Wpn Mods         WR         MCOT           Inf Wpn Mods         WR         MCCD           M1A1 Mods         MIPR         ARDE           M1A1 Mods         WR         MCOT	TEA, Quantico, VA	0.014	0.011	1Q00					Continuing	Continuing	
Inf Wpn Mods         WR         MCCD           M1A1 Mods         MIPR         ARDE           M1A1 Mods         WR         MCOT	, Panama City, FL		0.260						0.000	0.260	0.260
M1A1 Mods MIPR ARDE M1A1 Mods WR MCOT	TEA, Quantico, VA	0.050	0.010	Various	0.010	Various	0.010	Various	Continuing	Continuing	
M1A1 Mods WR MCOT	DC, Quantico, VA	0.040	0.065	Various	0.065	Various	0.065	Various	Continuing	Continuing	
	EC, Rock Island, IL	0.020	0.010	Various	0.020		0.020	1Q01	Continuing	Continuing	
		0.100							Continuing	Continuing	
Nt Vision Mods WR MCOT	TEA, Quantico, VA		0.050	Various	0.025	2Q01	0.025	2Q01	Continuing	Continuing	
		0.050			0.035		0.020	Various	Continuing		
	TEA, Quantico, VA	0.074	0.225	1Q00	0.175	1Q01	0.085	1Q01	0.000	0.559	0.559
	TEA, Quantico, VA TEA, Quantico, VA	0.074	0.127	1Q00	0.117	2Q01	0.075	2Q01	0.000 Continuing	0.444 Continuing	0.444
Subtotal T&E	TEA, Quantico, VA TEA, Quantico, VA TEA, Quantico, VA	0.074			1	l				Jonanang	
Remarks:	OTEA, Quantico, VA				0.749		1.761		Continuing	Continuing	

									DATE:				
Exhibit R-3 Cost Analysis											June 200	)1	
APPROPRIATION/BUDGET A	CTIVITY		PROGRAM ELEMENT					PROJECT	NUMBER	AND NAM	ЛΕ		
RDT&E, N /BA 7 Operational	Sys Dev		0206623M Marine Corp	s Ground C	combat/S	upporting	Arms Sys	C1901 Ma	rine Corp	s Ground	Weaponry P	IP	
Cost Categories	Contract	Performing	-	Total		FY 00		FY 01	•	FY 02			Target
(Tailor to WBS, or System/Item	Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
MANAGEMENT													
Fam Improved Mortars	WR	MCSC, Qua	intico, VA		0.008	1Q00					Continuing	Continuing	1
Fire Supt Mods	WR	MCSC, Qua	intico, VA	0.225	0.167	1Q00	0.090	1Q02	0.080	1Q02	Continuing	Continuing	
Inf Wpns Mods	RCP	ALS, Inc, Du	umfries, VA	0.026	0.088	Various					0.000	0.114	0.455
M1A1 Firepower	RCP	ALS, Inc, Du	umfries, VA		0.011	Various					0.000	0.011	0.011
M1A1 Firepower	RCP	BAEST, Sta	fford, VA			Various	0.011	2Q01	0.064	2Q02	Continuing	Continuing	9
TLDHS	RCP	ALS, Inc, Du	umfries, VA	0.010	0.008	Various					0.000	0.018	0.183
TLDHS	RCP	BAEST, Sta	fford, VA				0.013	Various	0.005	Various	0.000	0.018	0.180
Subtotal Management				0.261	0.282		0.114		0.149		0.000	0.806	
Remarks:													
Total Cost					14.276		7.999		13.815		Continuing	Continuing	1
10101 0001					11.270		7.000		10.010		Continuing	, communi	1

### CLASSIFICATION:

EXI	HIBIT R-2a, RDT8	E Project Ju	stification				DATE:			
								June	2001	
APPROPRIATION/BUDGET ACTIVITY	PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME									
RDT&E, N /BA-7 Operational Sys Dev	0206623M	Marine Corp	s Ground Co	ombat Arms	Systems	C2086 Mari	ne Enhanced	l Program (N	IEP)	
									Cost to	Total
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program
Project Cost	1.472	1.640	2.555	0.000	0.000	0.000	0.000	0.000	Cont	Con
RDT&E Articles Qty										

### (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) This program was formerly titled Soldier/Marine Enhancement. MEP provides Research, Development, Test and Evaluation funding for low visibility, low cost items. It focuses on items of equipment which will benefit the individual Marine by reducing the load, increasing survivability, enhancing safety and improving combat effectiveness. The emphasis of the program is on non-developmental/commercial of the shelf (NDI/COTS) available items which can be quickly evaluated and fielded. This program is coordinated with the Army's Soldier Enhancement Program and the Special Operations Command.

### PROGRAM ACCOMPLISHMENTS AND PLANS

### FY 2000 Accomplishments:

- (U) \$ 0.458 Explored NDI equipment that will improve the combat effectiveness and enhance safety and survivability of the Individual Marine.
- (U) \$ 0.565 Explored clothing and individual equipment NDI categories.
- (U) \$ 0.449 Explored ground weapons, communications and command and control equipment NDI categories.
- (U) Total \$ 1.472

## FY 2001 Planned Program

- (U) \$ 0.560 Continue to explore NDI equipment that will improve the combat effectiveness and enhance safety and survivability of the Individual Marine.
- (U) \$ 0.543 Continue to explore clothing and individual equipment NDI categories.
- (U) \$ 0.525 Continue to explore ground weapons, communications and command and control equipment NDI categories.
- (U) \$ 0.012 SBIR: Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.
- (U) Total \$ 1.640

### FY 2002 Planned Program

- (U) \$ 0.903 Continue to explore NDI equipment that will improve the combat effectiveness and enhance safety and survivability of the Individual Marine.
- (U) \$ 0.834 Continue to explore clothing and individual equipment NDI categories.
- (U) \$ 0.818 Continue to explore ground weapons, communications and command and control equipment NDI categories.
- (U) Total \$ 2.555

Exhibit R-2a, RDTE,N Project Justification

(Exhibit R-2a, page 24 of 41)

### **CLASSIFICATION:**

EXHIBIT			ATE:						
								June 2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NU	MBER AND	NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206623M M	larine Corps	Ground Cor	nbat Arms S	Systems	C2086 Marin	e Enhanced	Program (MEP)	
•	FY2000	FY2001	FY2002		-			, ,	
(U) FY 2001 President's Budget:	1.475	1.656	2.604						
(U) Adjustments from the President's Budget:									
(U) SBIR/STTR Transfer	-0.011								
(U) Execution Adjustment									
(U) Minor Affordability Adjustment	-0.006	-0.016	-0.049						
(U) Program Adjustment	0.014								
(U) FY 2002 President's Budget:	1.472	1.640	2.555						
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.									
(U) B. OTHER PROGRAM FUNDING SUMMAR									
Line Item No. & Name	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U) PMC (BLI #221100) MEP	4.343	8.336	2.243	0.000	0.000	0.000	0.000	0.000 Continuing	Continuing
(U) O&M Initial Issue Active	44.693	32.173	27.662	0.000	0.000	0.000	0.000	0.000 Continuing	Continuing
	15.523	12.758	7.749	0.000	0.000	0.000		Continuing	Continuing

(U) C. ACQUISITION STRATEGY: \* An explanation of acquistion, management, and contracting strategies shall be provided for each project.

Acquisition Strategies are program specific. They vary from modified NDI to short term developmental programs.

(U) D. SCHEDULE PROFILE: N/A

Exhibit R-3 Cost Analysis										June 200	)1	
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM ELEMENT					PROJEC	T NUMBER	R AND NA	ME		
RDT&E, N /BA 7 Operation	al Svs Dev	0206623M Marine Cor	rps Ground (	Combat /	Arms Svs	stems	C2086 M	arine Enha	UMBER AND NAME  BE Enhanced Program (MEP)  FY 02 Ta  02 Award Cost to Total Va			
Cost Categories		Performing	Total		FY 00	T	FY 01			<u> </u>		Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award			Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date		Cost	Contract
Primary Hardware Dev											0.000	)
Ancillary Hardware Dev											0.000	)
Systems Engineering											0.000	)
Licenses											0.000	)
Tooling											0.000	)
GFE											0.000	)
Award Fees	1									1		
	WR	Lexington-Bluegrass, Lexington KY	2.357	0.042	1Q00	0.048	1Q01	0.052	1Q02	Continuing	Continuing	1
	WR	NOC PacDiv, Fallbrook, CA	0.173	0.030	1Q00	0.035	1Q01	0.040	1Q02			
	WR/RCP	MCTSSA, CamPen, CA	0.604	0.004	1Q00	0.005	1Q01	0.018	1Q02			
		NCTRF, Aberdeen, MD	0.299	0.021	1Q00	0.021		_				•
		NATICK, Natick, MA	1.298	0.040	2Q00	0.070	2Q01	0.151	1Q02	Continuing	Continuing	1
	MIPR	ARL/APG Aberdeen, MD	0.247	0.007	1Q00	0.008	1Q01	0.022	2Q02	Continuing	Continuing	1
	MIPR	NSMA, Washington DC	0.175	0.014	1Q00	0.016	1Q01	0.020	1Q02	Continuing	Continuing	1
	MIPR	TACOM, Warren MI	0.067			0.011	2Q01	_				-
	MIPR	2nd MARDIV, CamLej, NC	0.389	0.018	2Q00	0.020	2Q01	0.038	2Q02	Continuing	Continuing	1
	WR	2nd MARDIV, CamLej, NC	0.066	0.002		0.004				Continuing	Continuing	ı
	WR	NCCOSC, San Diego, CA	0.217	0.016	1Q00	0.014	1Q01	0.022	2Q02	Continuing	Continuing	j l
	WR	NCSS, Panama City, FL	1.880	0.008	1Q00	0.012	2Q01	0.035	1Q02	Continuing	Continuing	j
	WR	NSWC, Crane, IN	2.000	0.032	1Q00	0.040	1Q01	0.097	1Q02	Continuing	Continuing	j
	WR	NAWC Air Div, Pax River, MD	0.256	0.038	1Q00	0.041	1Q01	0.072	1Q02	Continuing	Continuing	ı
	WR	II MEF, CamLej, NC	0.080	0.005	1Q00	0.005	1Q01	0.010	1Q02	Continuing	Continuing	j
											_	
Subtotal Product Dev			10.108	0.287		0.350		0.632		Continuing	Continuing	1

### **CLASSIFICATION:**

CLASSIFICATION:								DATE:				
Exhibit R-3 Cost Analysis								DATE.		June 200	14	
APPROPRIATION/BUDGET ACTIVIT	/	PROGRAM ELEMENT					DDO IEC	T NUMBE			71	
APPROPRIATION/BUDGET ACTIVIT		PROGRAM ELEMENT					PROJEC	INUINDE	K AND NA	NIVIE .		
RDT&E, N /BA 7 Operational Sys [	ev	0206623M Marine Corp	s Ground (	Combat A	Arms Sys	tems	C2086 M	arine Enh	anced Pro	ogram (MEP)	l	
Cost Categories Contra	t Performing		Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or System/Iter Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements) & Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Development Support Equip											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	,
Configuration Management											0.000	
Technical Data											0.000	
WR	MCCDC, Q	uantico, VA	2.039	0.037	1Q00	0.037		0.095		Continuing	Continuing	i
Various	MISC	•	4.434	0.146	Various	0.029		0.070		Continuing	Continuing	
Subtotal Support			6.473	0.183		0.066		0.165				
Remarks:	1		I					- I		•	•	
Cost Categories Contra	t Performing		Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or System/ItemMethod	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements) & Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Developmental Test & Eval											0.000	
Operational Test & Eval											0.000	
Tooling											0.000	
WR/R(	P MCTSSA, (	CamPen, CA	1.818	0.024	1Q00	0.024	1Q01	0.054	1Q02	Continuing		
WR/R0	P NCTRF, Ab		0.851	0.005	1Q00	0.005	1Q01	0.018	1Q02	Continuing		
MIPR	NATICK, N		2.470	0.125		0.185		0.290		Continuing		
MIPR	ARL/APG A	Aberdeen, MD	0.801	0.012	1Q00	0.014	2Q01	0.035	2Q02	Continuing	Continuing	
MIPR		adelphia, PA	0.046			0.005	3Q01	0.024	3Q02	Continuing	Continuing	Í
WR/R(		29 Palms, CA	0.351	0.008	1Q00	0.010	2Q01	0.020	2Q02	Continuing	Continuing	
MIPR		shington DC	0.539	0.021	1Q00	0.021	1Q01	0.035	1Q02	Continuing	Continuing	Í
MIPR	TACOM, W	arren MI	0.199	0.021	1Q00	0.021	1Q01	0.031	1Q02	Continuing		
MIPR	NHRC, Cra	ne, IN	1.473	0.150	2Q00	0.200	2Q01	0.292	2Q02	Continuing	Continuing	
WR		IV, CamLej, NC	0.224	0.012		0.012		0.025		Continuing		
WR		San Diego, CA	0.674	0.036	1Q00	0.036	2Q01	0.046	2Q02	Continuing		
WR		ama City, FL	6.192	0.015		0.015		0.027		Continuing		
WR	NSWC, Cra		6.560	0.260	1Q00	0.284	1Q01	0.270	1Q02	Continuing		
WR		Div, Pax River, MD	0.788	0.162	1Q00	0.176	1Q01	0.275	1Q02	Continuing	Continuing	j
WR		ian Head, MD	0.556	0.010	4Q00	0.010	3Q01	0.020	3Q02	Continuing	Continuing	
Various	MISC		8.851	0.137	Various	0.206		0.296		Continuing		
Subtotal T&E			32.393	1.002		1.224		1.758		Continuing		
Remarks:					tom No. 1							

R-1 SHOPPING LIST - Item No. 191

### **CLASSIFICATION:** DATE: June 2001 Exhibit R-3 Cost Analysis APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT PROJECT NUMBER AND NAME RDT&E, N /BA 7 Operational Sys Dev 0206623M Marine Corps Ground Combat Arms Systems C2086 Marine Enhanced Program (MEP) Cost Categories Contract Performing Total FY 00 FY 01 FY 02 Target (Tailor to WBS, or System/ItemMethod Activity & PY s FY 00 Award FY 01 Award FY 02 Award Cost to Total Value of Requirements) Complete & Type Location Cost Cost Date Cost Date Cost Date Cost Contract Contractor Eng Suppt 0.000 Govt Engineering Suppt 0.000 Program Mngmnt Suppt 0.000 Travel 0.000 Labor (Research Personnel) 0.000 Overhead 0.000 Subtotal Management 0.000 0.000 0.000 0.000 0.000 0.000 Remarks: **Total Cost** 1.472 1.640 2.555 Continuing Continuing

R-1 SHOPPING LIST - Item No. 191

### **CLASSIFICATION:**

EXHIB	IT R-2a, RDT		DATE:								
	,							June	2001		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM	ELEMENT N	UMBER AND	NAME		PROJECT N	IUMBER AND	NAME			
	A 7 0										
RDT&E, N /BA-7 Operational Sys Dev	nal Sys Dev 0206623M Marine Corps Ground Combat Arms Systems C2237						Amphibious Vehicle Test Branch (AVTB)				
									Cost to	Total	
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program	
Project Cost	0.598	0.717	0.732	0.000	0.000	0.000	0.000	0.000	Cont	Cont	
RDT&E Articles Qty											

### (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) The Amphibious Vehicle Test Branch (AVTB) is a one-of-a-kind Department of Defense test facility for amphibious vehicles and supports the requirements of all Services. The AVTB conducts developmental, combined developmental/operational, and follow-on testing and evaluation of production hardware. It also conducts Product Assurance Testing and Substitute or alternative parts and material testing for amphibious vehicles and associated equipment. Because of its year-round temperate climate, diverse terrain, and 17 miles of coastline, the AVTB is ideal for the amphibious vehicle, as well as ship related testing. The AVTB is in close proximity to San Clemente island which is used frequently for live fire sea-to-shore testing and high-speed water testing. The AVTB is committed to testing product improvement programs, engineering change proposal design changes, and field change requests.

## PROGRAM ACCOMPLISHMENTS AND PLANS

### FY 2000 Accomplishments:

- O.490 Provided program support, supplies, and services at AVTB test site to support scheduled and unscheduled Assault Amphibious Vehicle 7A1 (AAV7A1) "rebuild to standard" testing, Advanced Assault Amphibious Vehicle (AAAV) Development Testing as well as other Marine Corps mobility and mine warfare programs.

  Programmed on-site support, supplies, and services to support Naval Sea System Command and Naval Mine Warfare Command for development testing of Navy mine countermeasures system. Provided services and support to the Department of Defense Common Test and Training Range Architecture workshops. These funds provided organic supply support including management operations, advertising, general accounting, and a maintenance float of equipment. Provided intermediate maintenance (third
- (U) \$ 0.108 Provided funding for necessary services provided by Marine Corps Base, Camp Pendleton (MCB CAMPEN), California and off-station units for electricity, heating, and other power charges; long distance telephone support; and calibration of laboratory test equipment and maintenance.

echelon) of organic non-developmental communication electronic and ordnance equipment.

(U) Total \$ 0.598

### FY 2001 Planned Program

O.550 Maintenance, refurbishment, upgrade, and replacement of test equipment and instrumentation needed to provide program support, supplies, and services at AVTB test site to support scheduled Assault Amphibious Vehicle 7A1 (AAV7A1) "rebuild to standard" testing, Advanced Amphibious Assault Vehicle (AAAV) Development Testing, Light Armored Vehicle Service Life Extension Program as well as other Marine Corps mobility and mine warfare programs. Upgrade instrumentation for over the horizon capability in developing weapons systems to support operational maneuver from the sea. Program on-site support, supplies, and services to support Naval Sea System Command and Naval Mine Warfare Command for development testing of Navy mine countermeasures system. Provide services and support to the Department of Defense Common Test and Training Range Architecture workshops. These funds provide organic supply support including management operations, advertising, general accounting, and a maintenance float of equipment. Provide intermediate maintenance (third echelon) of organic non-developmental communication electronic and ordnance equipment.

Exhibit R-2a, RDT,N\_Project Justification (Exhibit R-2a, page 29 of 41)

## **CLASSIFICATION:**

	EXH	IIBIT R-2a, RDT&E	Project Just	ification			DATE:
ADDDODDIAT	ION/DUDGET ACTIVITY	DDOODAM EL		MDED AND NAME		DDO IECT N	June 2001
APPROPRIATI	ION/BUDGET ACTIVITY	PROGRAM EL	EMENT NU	MBER AND NAME		PROJECTIN	NUMBER AND NAME
RDT&E, N /BA	-7 Operational Sys Dev	0206623M Ma	rine Corps	Ground Combat Arms Sy	stems	C2237 Amp	hibious Vehicle Test Branch (AVTB)
• (U)\$							fornia for electricity, heating, and other power charges; and ervices provided by MCLB Barstow and 1st Force Service
• (U)\$	0.003 SBIR: Portion of extran	nural program reserve	ed for Small E	Business Innovation Research	assessmer	nt in accordance	e with 15 USC 638.
(U) Total \$	0.717						
FY 2002 Planne	ed Program						
• (U) \$ • (U) \$	to support scheduled Ass Light Armored Vehicle scapability in developing Command and Naval Mi Common Test and Train and a maintenance float 0.161 Provide funding for nece	sault Amphibious Ve Service Life Extension weapons systems to ine Warfare Command ing Range Architector of equipment. Provicessary services provides	hicle 7A1 (Az on Program as support opera ad for develop are workshops de intermediat led by Marine	AV7A1) "rebuild to standard well as other Marine Corps at tional maneuver from the sea ment testing of Navy mine control. These funds provide organ are maintenance (third echelors Corps Base, Camp Pendleto	" testing, A mobility ar a. Program ountermeas ic supply s a) of organ n (MCB C	advanced Amph nd mine warfare n on-site support sures system. P support includin ic non-developr AMPEN), Calif	program support, supplies, and services at AVTB test site nibious Assault Vehicle (AAAV) Development Testing, a programs. Upgrade instrumentation for over the horizon at, supplies, and services to support Naval Sea System Provide services and support to the Department of Defense and management operations, advertising, general accounting mental communication electronic and ordnance equipment. Fornia for electricity, heating, and other power charges; and ervices provided by MCLB Barstow and 1 Force Service
(U) Total \$	Support Group (FSSG). 0.732						
		FY2000	FY2001	FY2002			
(U) FY 2001 P	resident's Budget:	0.639	0.724	0.729			
(U) Adjustmen (U) SBIR/	tts from the President's Budget: STTR Transfer tion Adjustment						
` '	Affordability Adjustment	-0.003	-0.007	0.001			
` '	am Adjustment	-0.034		0.002			
(U) FY 2002 P	resident's Budget:	0.598	0.717	0.732			
(U) Fui (U) Scl	E SUMMARY EXPLANATION: nding: See Above. hedule: Not Applicable. chnical: Not Applicable.						
							Evhibit R-23 RDT N Project Justification

Exhibit R-2a, RDT,N\_Project Justification

### **CLASSIFICATION:**

	R-2a, RDT&E Project Justilication	June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev  (U) B. OTHER PROGRAM FUNDING SUMMAR		C2237 Amphibious Vehicle Test Branch (AVTB)

Line Item No. & Name FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 To Compl Total Cost

(U) Related RDT&E: PE 0603611M (Marine Corps Assault Vehicles)

(U) C. ACQUISITION STRATEGY: \* An explanation of acquisition, management, and contracting strategies shall be provided for each project.

Work will be lead in-house. Necessary contractor support will be provided by MCB Barstow by using existing contracts. General Services Administration will be used for vehicle leasing contract.

### (U) D. SCHEDULE PROFILE:

Testing conducted at AVTB includes all aspects of Marine Corps Assault Amphibious Vehicles. Testing planned for FY 02 and beyond includes MK 155 Minefield Breaching System, NBC overpressure system, RAM/RS (Reliability, Availability and Maintainability/Rebuild to Standard) Proof of Principle Developmental Testing, Operational Testing Support and Production Assurance testing. Engineering Change Proposals (ECP) as required; Combined Recoil Booster (CRB) for adoption of Multiple Integrated Laser Engagement System (MILES) for AAV use; upgrade instrumentation for over the horizon capability in developing weapons systems to support operational maneuver from the sea, support for the Light Armored Vehicle Service Life Extension Program; C4I integrated support for AAV Communications and 7 RAM/RS. AVTB will also support the testing of the Advanced Amphibian Assault Vehicle (AAAV) as directed, by DRPM AAA, during the Program Definition & Risk Reduction phase of the AAAV Program Development.

Exhibit R-2a, RDT, N\_Project Justification

### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:			
•								June	2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NU	MBER AND N	IAME	JMBER AND NAME					
	0206623M M	arine Corps (	<b>Ground Com</b>	bat/Supporti	ng Arms					
RDT&E, N /BA-7 Operational Sys Development	Systems					C2503 Initial	Issue			
									Cost to	Total
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program
Project Cost	2.007	1.403	1.307	0.000	0.000	0.000	0.000	0.000	Cont	Cont
1 10/500 0000	2.007	1.403	1.507	0.000	0.000	0.000	0.000	0.000	Cont	Com
RDT&E Articles Qty										

## (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Initial Issue program provides Research, Development, Test and Evaluation of low visibility, low cost items with emphasis on non-developmental/commercially available items. Items approved for procurement will transition into the O&M Initial Issue program. Focus is on clothing and equipment items (i.e. improved Jungle and Desert Boots, Light Weight Helmet, combat boots, sleeping bags) which will benefit the individual Marine by reducing the load with less bulky, lightweight, comfortable equipment, increasing survivability and improving combat effectiveness. Initial Issue continues to explore the spectrum of technologies commercially available that can provide enhancement in individual protection, tactical mobility and application of state-of-the-art technologies through studies and testing.

### PROGRAM ACCOMPLISHMENTS AND PLANS

## FY 2000 Accomplishments:

		1 '
• (U) \$	0.981 Explored and evaluated across a broad spectrum of commercially available technologies that could be incorporated into existing or new designs of individual clothing and equipment in a	ļ <sup> </sup>
	effort to reduce weight, increase survivability, increase lethality, improve safety, increase mobility, and improve combat performance of the individual Marine. (Marine load system prod	uct
	improvement, redesigned, conducted testing and evaluation; improved jungle and desert boots; conducted boot outsole traction study to optimize performance of boot soles for traction,	
	durability, and resole-ability; body armor and light weight helmet ballistic testing which included cadaver testing and analysis of ballistic effects of shock forces of the torso, neck and spi	ne;
	reviewd uniform sizing integration (less sizes covering same population with potential cost savings associated with stock and storage). Provided recommendations to uniform board on	
	Marine uniform product improvements in an effort to reduce cost, utilize commercial manufacturing techniques, improve durability, and retain sharp appearance.	
		1 '

- (U) \$ 0.070 Performed trade studies and system alternative analysis, evaluations, verification and validation of the Marine Casualty Flow Model to address casualties on the battlefield.
- (U) \$ 0.442 Conducted validation of the model and testing of the Forward Resusitative Surgery System prototypes.
- (U) \$ 0.314 Developed and purchased 2 complete Digital Radiography Systems for field testing and evaluation.
- (U) \$ 0.200 Conducted Blunt Trauma Studies at the Armed Forces Pathology Laboratory.

(U) Total \$ 2.007

### FY 2001 Planned Program

- (U) \$ 1.024 Continue to validate and incorporate commercial technologies into individual combat clothing and equipment. Conduct comparative analysis through boot study (fatigue, shear force, injury rates, energy consumption) of new infantry combat boots and existing foot wear. Conduct study/analysis of the Army's Land Warrior program for commercial technology insertion to complement the Marine Corps Integral Combat System (our version of Land Warrior). Evaluate commercial power source/recharging systems through individual movement (Piezoelectrics). Evaluate and incorporate cost-effective commercial fabric technologies into the Battle Dress uniform.
- (U) \$ 0.284 Complete development and test of the Forward Resusitative Surgery System.
- (U) \$ 0.095 Continue operational assessment of Forward Resusitative Surgery System and provide test data to Medical Community for acceptance.

(U) Total \$ 1.403 Exhibit R-2a, RDTE,N Project Justification

## **CLASSIFICATION:**

FXHIBIT R-2a.	RDT&E Project Justification						DATE:
							June 2001
APPROPRIATION	ON/BUDGET ACTIVITY	PROGRAM ELE	MENT NUME	BER AND NAME	F	PROJECT N	UMBER AND NAME
		0206623M Mar	ine Corps Gr	ound Combat/Supporting A	rms		
RDT&E, N/BA-	-7 Operational Sys Development	Systems			(	C2503 Initial	Issue
FY 2002 Planne	d Program						
• (U)\$	lethality and mobility. Both protection while reducing w	torso and head/necleight. Modeling and	k ballistic studion ini	es will be conducted to assess blu tiatives will enable the baselinin	unt trauma/ g of curren	shock forces of t equipment a	otwear and clothing systems to reduce weight, increase survivable on the body and how ballistic materials/designs can afford the mod configuration/compatibility management of new equipment gned to protect Marines' eyes from laser and ballistic threats.
• (U) \$ (U) Total \$	0.243 Develop software interface 1.307	for Marine Casualty	Flow Model for	r estimating supply program.			
		FY2000	FY2001	FY2002			
(U) FY 2001 Pr	resident's Budget:	1.613	1.416	1.301			
(U) Adjustment	ts from the President's Budget:						
` '	STTR Transfer	-0.004					
` '	tion Adjustment	0.397					
, ,	Affordability Adjustment	-0.005	-0.013	-0.019			
	m Adjustment resident's Budget:	0.006 2.007	1.403	0.025 1.307			

# CHANGE SUMMARY EXPLANATION:

(U) Funding: See Above.

(U) Schedule: Digital Radiography Program Schedule accelerated to take advantage of cost savings and technology available now.

(U) Technical: Not Applicable.

CLASSIFICATION:					
EXHIBIT R-2a, RDT&E Project Justification			DATE:		
				June 2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJEC	T NUMBER AND N	NAME	
	0206623M Marine Corps Ground Combat/Supporting Arms				
RDT&E, N /BA-7 Operational Sys Development	Systems	C2503 Ir	nitial Issue		
(II) D. OTHER RECORAN FUNDING CHIMMARY.					
(U) B. OTHER PROGRAM FUNDING SUMMARY:		004 577	2005 FV 2004	C FV 2007 To Commi	Tatal Cast
<u>Line Item No. &amp; Name</u> (U) PMC Line (BLI#652200) Field Med Equip **	FY 2000 FY 2001 FY 2002 FY 2003 FY 20 3.412 0.000	004 FY 2	2005 FY 2006	6 FY 2007 To Compl Cont.	Total Cost Cont.
	ography are the procurement programs contained within PMC Field Med	lical Equipmen	nt and associated with		Cont.
1 of ward resussitative Surgery System & Digital reads	ygraphy are the procurement programs contained within 1 1/20 1 left fried	near Equipmen	it and associated with	i ilitida 188de.	
(U) Related RDT&E: Not Applicable.					
(1)					
					ļ
(U) C. ACQUISITION STRATEGY: * Initial Issue ite	ms are all ACAT IV programs and utilize various acquisition strategies.	Initial Issue p	rograms leverage hea	avily off of current developments ar	ıd
technology in commercial industry. As a result, governm	ent's R&D phase is relatively short. Contracting is performed by either	Marine Corps	Systems Command C	Contracting	
Directorate or the U.S. Army Natick Research, Developm	nent and Engineering Center via Indefinite Delivery/Indefinite Quanity (I	ID/IQ) contrac	ts. ID/IQ contracts a	are used to	
decrease the government risk, allow maximum contract fl	lexibility and capitalize on the savings realized by utilizing Economic Or	der Quanities.			
	strategy is to modify non-developmental Items (NDI) to further meet the			to support development of	
•	to adopt Commercial-Off-the-Shelf (COTS)/NDI Marine Corps specific	-	1		
(U) D. SCHEDULE PROFILE: Not Applicable.					

									DATE:				
Exhibit R-3 Cost Analysis											June 200	1	
APPROPRIATION/BUDGET A	CTIVITY		PROGRAM ELEMENT					<b>PROJEC</b>	T NUMBER	R AND NA	ME		
			0206623M Marine Corps	<b>Ground C</b>	ombat/S	upporting	Arms						
RDT&E, N /BA 7 Operational	Svs Deve	elopment	Systems					C2503 In	itial Issue				
Cost Categories	Contract	Performing	1 2	Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 00	Award		Award	FY 02	Award	Cost to	Total	Value o
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Primary Hardware Dev	- '											0.000	
Ancillary Hardware Dev												0.000	
Systems Engineering												0.000	
_icenses												0.000	
Fooling												0.000	
GFE												0.000	
Award Fees												0.000	
	MIPR	USASSCO	M		0.980	2Q/00	0.908	1Q/01	0.932	1Q/02	Continuing		
	FFP	MCSC CTC			0.314		0.000		0.000		Continuing		
Subtotal Product Dev				0.000			0.908		0.932		Continuing	_	
Remarks:													
Cost Categories	Contract	Performing		Total	E) ( 00	FY 00		FY 01	5), 00	FY 02			
Cost Categories (Tailor to WBS, or System/Item	Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	
Cost Categories (Tailor to WBS, or System/Item Requirements)					FY 00 Cost			_	FY 02 Cost		Cost to Complete	Cost	Value c
Cost Categories Tailor to WBS, or System/Item Requirements) Development Support Equip	Method	Activity &		PY s		Award	FY 01	Award		Award		Cost 0.000	Value o
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development	Method	Activity &		PY s		Award	FY 01	Award		Award		0.000 0.000	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Fraining Development	Method	Activity &		PY s		Award	FY 01	Award		Award		0.000 0.000 0.000	Value o
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support	Method	Activity &		PY s		Award	FY 01	Award		Award		0.000 0.000 0.000 0.000	Value o
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management	Method	Activity &		PY s		Award	FY 01	Award		Award		0.000 0.000 0.000 0.000 0.000	Value o
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data	Method	Activity &		PY s	Cost	Award	FY 01	Award		Award		0.000 0.000 0.000 0.000	Value o
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management	Method	Activity &		PY's Cost	Cost	Award	FY 01	Award		Award		0.000 0.000 0.000 0.000 0.000	Value o Contrac
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks:	Method & Type	Activity & Location		PY s Cost	Cost	Award Date	FY 01 Cost	Award Date		Award Date		0.000 0.000 0.000 0.000 0.000	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories	Method & Type	Activity & Location  Performing		PY s Cost 0.000	Cost	Award Date	FY 01 Cost	Award Date	Cost	Award Date	Complete	Cost 0.000 0.000 0.000 0.000 0.000	Value c Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories (Tailor to WBS, or System/Item	Method & Type Contract Method	Activity & Location  Performing Activity &		PY s Cost 0.000	FY 00	Award Date	FY 01 Cost	Award Date	Cost	Award Date FY 02 Award	Cost to	Cost 0.000 0.000 0.000 0.000 0.000 0.000 Total	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories (Tailor to WBS, or System/Item Requirements)	Method & Type	Activity & Location  Performing		PY s Cost 0.000	Cost	Award Date	FY 01 Cost	Award Date	Cost	Award Date	Complete	Cost 0.000 0.000 0.000 0.000 0.000 0.000 Total Cost	Value of Contract  Target Value of Contract
Cost Categories Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories Tailor to WBS, or System/Item Requirements) Developmental Test & Eval	Method & Type Contract Method	Activity & Location  Performing Activity &		PY s Cost 0.000	FY 00	Award Date	FY 01 Cost	Award Date	Cost	Award Date FY 02 Award	Cost to	Cost 0.000 0.000 0.000 0.000 0.000 0.000  Total Cost 0.000	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories (Tailor to WBS, or System/Item Requirements) Developmental Test & Eval Operational Test & Eval	Method & Type Contract Method	Activity & Location  Performing Activity &		PY s Cost 0.000	FY 00	Award Date	FY 01 Cost	Award Date	Cost	Award Date FY 02 Award	Cost to	Cost  0.000 0.000 0.000 0.000 0.000 0.000  Total Cost 0.000 0.000	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories (Tailor to WBS, or System/Item Requirements) Developmental Test & Eval Operational Test & Eval	Method & Type  Contract Method & Type	Activity & Location  Performing Activity & Location	M	PY s Cost 0.000	FY 00 Cost	Award Date	FY 01 Cost	Award Date FY 01 Award Date	FY 02 Cost	Award Date	Cost to Complete	Cost  0.000 0.000 0.000 0.000 0.000 0.000  Total Cost 0.000 0.000 0.000	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support Remarks: Cost Categories (Tailor to WBS, or System/Item Requirements) Developmental Test & Eval Operational Test & Eval	Method & Type  Contract Method & Type  MIPR	Performing Activity & Location  USASSCO		PY s Cost 0.000	FY 00 Cost	FY 00 Award Date	FY 01 Cost FY 01 Cost	Award Date  FY 01 Award Date  3Q/01	FY 02 Cost	FY 02 Award Date	Cost to Complete  Continuing	Cost  0.000 0.000 0.000 0.000 0.000 0.000  Total Cost 0.000 0.000 Continuing	Value of Contract
Cost Categories (Tailor to WBS, or System/Item Requirements) Development Support Equip Software Development Training Development Integrated Logistics Support Configuration Management Technical Data Subtotal Support	Method & Type  Contract Method & Type	Activity & Location  Performing Activity & Location		PY s Cost 0.000	FY 00 Cost 0.251 0.342	FY 00 Award Date	FY 01 Cost	Award Date  FY 01 Award Date  3Q/01	FY 02 Cost	FY 02 Award Date	Cost to Complete	Cost  0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Continuing Continuing	Value o Contract  Target Value o Contract

### **CLASSIFICATION:** DATE: Exhibit R-3 Cost Analysis June 2001 APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT PROJECT NUMBER AND NAME 0206623M Marine Corps Ground Combat/Supporting Arms RDT&E, N /BA 7 Operational Sys Development C2503 Initial Issue **Cost Categories** Contract Performing Total FY 00 FY 01 FY 02 Target (Tailor to WBS, or System/Item Method Activity & PY s FY 00 FY 01 FY 02 Award Award Award Total Value of Cost to Requirements) & Type Cost Cost Cost Cost Location Date Date Date Complete Cost Contract Contractor Eng Suppt 0.000 0.000 Govt Engineering Suppt 0.000 Program Mngmnt Suppt WR MCSC Travel 0.020 1Q/00 0.020 1Q/01 0.021 1Q/02 Continuing Continuing FFP/O SVERDRUP 0.100 4Q/00 0.107 4Q/01 0.101 4Q/02 Continuing Continuing 0.000 Travel Labor (Research Personnel) 0.000 0.000 Overhead Subtotal Management 0.000 0.122 0.120 0.127 0.000 0.369 Remarks: **Total Cost** 0.000 2.007 1.403 1.307 Continuing

R-1 SHOPPING LIST - Item No. 191

Continuing

### **CLASSIFICATION:**

EXI	IIBIT R-2a, RDT8	&E Project Ju	stification				DATE:			
								June	2001	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM I	ELEMENT N	JMBER AND	NAME		PROJECT N	<b>IUMBER AND</b>	NAME		
RDT&E, N /BA-7 Operational Sys Developme	nt 26623M Mar	ine Corps G	round Comb	at/Supt Arms		C2928 HIMA	ARS			
									Cost to	Total
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	Program
Project Cost	0.000	17.141	10.891	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
RDT&E Articles Qty		2								

## (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The High Mobility Artillery Rocket System (HIMARS) is an artillery system capable of firing rockets and/or guided missiles. It will provide long-range indirect fire support (45km or greater) to the Fleet Marine Force. It is composed of a Launcher Loader Module (LLM) and a fire control system mounted on a vehicle platform. The system will be C-130 aircraft transportable and rockets and missiles will be compatible with the current and future Multiple Launch Rocket System (MLRS) Family of Munitions. It will provide indirect fire support for the duration of tactical operations, accurately engaging targets at long range with high volumes of lethal fire under all weather conditions, both day and night. During a 24 hour period, the system will conduct multiple moves and multiple fire missions.

The HIMARS will satisfy the Marine Corps requirement for an indirect fire system that is responsive, maneuverable, and is capable of engaging targets at long range.

### PROGRAM ACCOMPLISHMENTS AND PLANS

FY 2000 Accomplishments: Not Applicable.

### FY 2001 Planned Program:

- (U) \$ 9.962 Purchase two HIMARS maturation launchers.
- (U) \$ 2.678 Program Management.
- (U) \$ 1.730 Engineering and Manufacturing Development.
- (U) \$ 0.276 Rockets, reduced range proctice.
- (U) \$ 0.500 MLRS Joint Program Management.
- (U) \$ 1.595 Launcher and Family of Medium Tactical Vehicles (FMTV) initial spares.
- (U) \$ 0.400 SBIR: Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 usc 638.
- (U) Total \$ 17.141

# FY 2002 Planned Program:

- (U) \$ 5.694 Engineering and Manufacturing Development. Includes contractor support, USMC R&D effort.
- (U) \$ 2.439 Program Management.
- (U) \$ 0.426 Support Test and Evaluation Program with Army. Includes contractor support, USMC R&D effort.
- (U) \$ 1.240 Systems test using equipment purchased with anticipated FY01 Congressional Enhancement.
- $\bullet \ \ \, (U)\,\$ \qquad \quad 0.033 \; \text{MLRS PMO Program Management}.$
- (U) \$ 0.399 Launcher and Family of Medium Tactical Vehicles (FMTV) contracter support.
- ullet (U) \$ 0.260 Launcher and FMTV Annual Repairs/Spares.
- (U) \$ 0.400 Training.
- (U) Total \$ 10.891

Exhibit R-2a, RDTE,N Project Justification

### **CLASSIFICATION:**

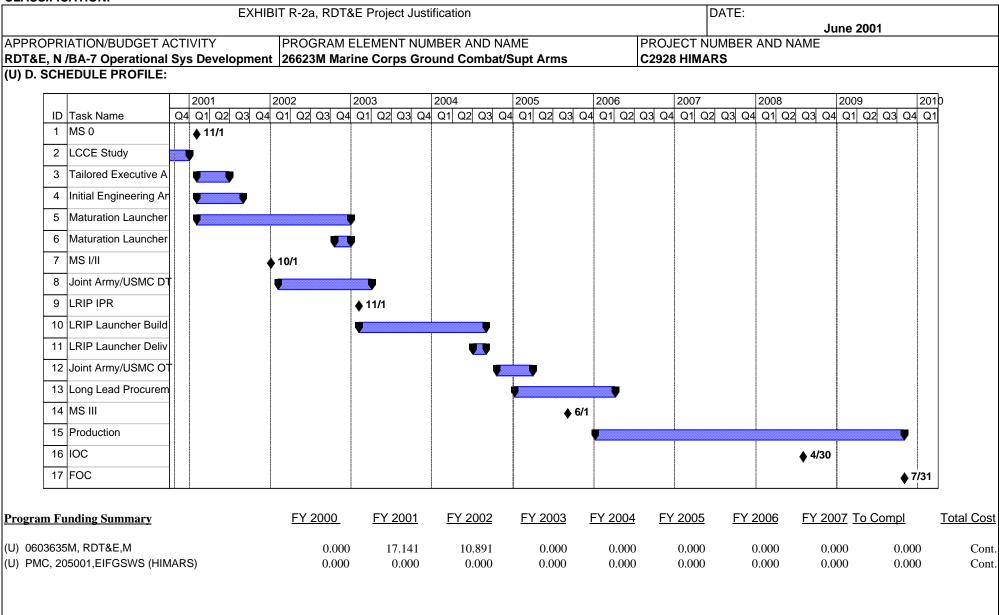
CLASSIFICATION:	D Oc DDT0E	Drainet lucti	ifi a a ti a u			l r	\ATC.			
EXHIBIT	R-2a, RDT&E	: Project Just	ilication			-	DATE:	June 20	)01	
APPROPRIATION/BUDGET ACTIVITY  RDT&E, N /BA-7 Operational Sys Development 2	PROGRAM EL	_				PROJECT NU			<del>/01</del>	
Koraz, 1784 / Operational dys Severophient	OOZOW WATER	C 001 p3 010	una combau	Toupt Airiis		OZOZO I IIIMAI	10			
PROJECT CHANGE SUMMARY										
	FY2000	FY2001	FY2002							
(U) FY 2001 President's Budget:	0.000	0.000	0.000							
<ul><li>(U) Adjustments from the President's Budget:</li><li>(U) SBIR/STTR Transfer</li></ul>										
<ul><li>(U) Execution Adjustment</li><li>(U) Minor Affordability Adjustment</li></ul>										
(U) Program Adjustment	0.000	17.141	10.891							
(U) FY 2002 President's Budget:	0.000	17.141	10.891							
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.										
(U) B. OTHER PROGRAM FUNDING SUMMARY: Line Item No. & Name	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To	Compl	Total Cost
(U) PMC, 205001,EIFGSWS (HIMARS)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Cont.	Cont
(U) Related RDT&E: Not Applicable.										

(U) Related RDT&E: Not Applicable

(U) C. ACQUISITION STRATEGY: \* An explanation of acquistion, management, and contracting strategies shall be provided for each project.

HIMARS will be a procurement of the Army rocket launcher and rockets currently under development. Program Management efforts will focus on ensuring the Army components are effective and suitable in a Marine Corps environment. Additionally, development of a MTVR truck variant and an associated trailer will be done by the Marine Corps.

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 38 of 41)



CLASSII ICATION.									DATE:				
Exhibit R-3 Cost Analysis											June 200	1	
APPROPRIATION/BUDGET A	ACTIVITY	PI	ROGRAM ELEMENT					PROJEC	T NUMBEI	R AND NA	ME		
RDT&E, N /BA-7 Operational	l Sys Deve	lopment 26	6623M MC Ground Com	nbat/Supt	Arms			C2928 HI	MARS				
Cost Categories	Contract	Performing		Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or Sys/Item	Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Primary Hardware Dev												0.000	
Ancillary Hardware Dev												0.000	
Systems Engineering												0.000	
Licenses												0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
	SS/CPAF	Lockheed Mar	tin, Dallas, TX	0.000	0.000		12.188	12/20/00	1.858	01/02/02	Continuing	Continuing	
	SS/CPAF	O'Gara-Hess,	Cincinnati, OH	0.000	0.000		0.300	12/20/00	0.214	01/02/02	Continuing		
	SS/CPAF	Steward & Ste	venson, Sealy, TX	0.000	0.000		0.005	12/20/00	0.652	07/02/02	Continuing	Continuing	
	FFP	USMC R&D, C		0.000	0.000		0.000			03/15/02	Continuing	Continuing	
	MIPR	US Army R&D	(MSL),Huntsville,AL	0.000	0.000		0.300	01/02/01	0.900	11/01/01	Continuing	Continuing	
	SS/CPAF		k Corp, Oshkosh,WI	0.000	0.000		1.075	0727/01	0.000		0.000	1.075	
	WR	NSWC-Carder		0.000	0.000		0.075	02/28/01	0.000		0.000	0.075	
	WR	NSWC-Dahlgr	en, VA	0.000	0.000		0.080	11/24/00	0.000		0.000	0.080	
	FFP		llen Assocs,Pittsb.,PA	0.000	0.000			04/15/01	0.000		0.000	0.040	
Subtotal Product Dev				0.000	0.000		14.063		6.241		0.000	20.304	
Remarks:													
Cost Categories	Contract	Performing		Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or System/Iter		Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value of
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Development Support Equip	WR	MARCORSYS	COM, Quantico, VA	0.000	0.000			02/28/01	2.091	10/15/02	Continuing	Continuing	
Development Support Equip	WR	MCCDC, Quai		0.000	0.000			04/30/01	0.000		0.000		
Program Support	MIPR	US Army-MSL	,Huntsville, AL	0.000	0.000		0.450	01/02/01	0.133	11/01/02	Continuing	Continuing	
Training Development Suppor	MIPR	Fort Sill-Traini	ng,Ft. Sill, OK	0.000	0.000		0.225	06/30/01	0.360	12/01/01	0.000	0.585	
Integrated Logistics Support	FFP	BAE Systems,	Stafford, VA	0.000	0.000		0.368	01/31/01	0.000		0.000	0.368	
	ļ					ļ							ļ
Subtotal Support				0.000	0.000	<u> </u>	2.687		2.584	<u> </u>	Continuing	Continuing	
Remarks:													

Exhibit R-3 Cost Analysis									DATE:		June 200	)1	
APPROPRIATION/BUDGET	ACTIVITY		PROGRAM ELEMENT					PROJEC	T NUMBE	R AND NA	ME		
RDT&E, N /BA-7 Operationa	I Sys Deve	lopment	26623M MC Ground Con	nbat/Supt	Arms			C2928 HI	MARS				
Cost Categories	Contract	Performing		Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or System/Ite	Method	Activity &		PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Value o
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Developmental Test & Eval												0.000	
Operational Test & Eval												0.000	
Tooling												0.000	
	WR	Cold Region	n Test Center, Ft Greely, Al	(	0.000		0.000		0.032	11/15/01	0.000	0.032	
	FFP	KTR SPT T			0.000		0.000		0.105	12/01/01	Continuing	Continuing	
	WR	Redstone T	ech Test Ctr,Huntsville,AL		0.000		0.000			10/31/01	0.000		
	FFP	RAM GEN S			0.000		0.000		0.032	12/01/01	Continuing	Continuing	
	WR	Aberdeen F	Proving Grd, Aberdeen, MD		0.000		0.000			11/15/01	0.000		
	CPAF	Systems Te			0.000		0.000		1.240	03/03/02	0.000	1.240	
	WR	User Evalua	ation - TBD		0.000		0.000		0.000		Continuing	Continuing	
	CPAF	KTR SPT -	OT		0.000		0.000		0.053	07/15/02	Continuing	Continuing	
	TRAVEL	Travel - OT			0.000		0.000		0.011	10/15/01	Continuing	Continuing	
	WR	OT Test Co	nduct		0.000		0.000		0.000		Continuing	Continuing	
	CPAF	OT Ammo-I	ockheed Martin, Dallas, TX		0.000		0.000		0.000		Continuing	Continuing	
Subtotal T&E				0.000	0.000		0.000		1.666		Continuing	1.465	
Remarks:	T	T=		I=	1	I-re-	1	( <del>-</del> )	T		Γ	1	T
Cost Categories		Performing		Total		FY 00		FY 01		FY 02			Target
(Tailor to WBS, or System/Ite		Activity &		PY s	FY 00	Award	FY 01	Award		Award	Cost to	Total	Value o
						l							
Requirements)	& Type	Location		Cost	Cost	Date	Cost	Date		Date	Complete	Cost	
Requirements) Program Mngmnt	WR	MCSC, QUA		Cost	Cost	Date	0.116	2/28/01	0.348	10/15/02	Complete	0.464	
Requirements) Program Mngmnt Program Mngmnt	WR WR	MCSC, QUA	UANTICO	Cost	Cost	Date	0.116 0.105	2/28/01 4/30/01	0.348 0.000	10/15/02	Complete	0.464 0.105	
Requirements) Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt	WR WR MIPR	MCSC, QUA MCCDC, Q US ARMY,	UANTICO AL	Cost	Cost	Date	0.116 0.105 0.050	2/28/01 4/30/01 1/02/02	0.348 0.000 0.116	10/15/02	Complete	0.464 0.105 0.166	
Requirements) Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt	WR WR MIPR MIPR	MCSC, QUA MCCDC, Q US ARMY, FT. STILL,	UANTICO AL TRNG	Cost	Cost	Date	0.116 0.105 0.050 0.010	2/28/01 4/30/01 1/02/02 6/30/01	0.348 0.000 0.116	10/15/02	Complete	0.464 0.105 0.166 0.014	
Requirements) Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt	WR WR MIPR	MCSC, QUA MCCDC, Q US ARMY,	UANTICO AL TRNG	Cost	Cost	Date	0.116 0.105 0.050	2/28/01 4/30/01 1/02/02 6/30/01	0.348 0.000 0.116	10/15/02	Complete	0.464 0.105 0.166 0.014 0.092	
Requirements) Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt Program Mngmnt	WR WR MIPR MIPR	MCSC, QUA MCCDC, Q US ARMY, FT. STILL,	UANTICO AL TRNG	0.000			0.116 0.105 0.050 0.010	2/28/01 4/30/01 1/02/02 6/30/01 1/31/01	0.348 0.000 0.116	10/15/02 11/01/01 12/01/01	0.000	0.464 0.105 0.166 0.014 0.092 0.000	