EXHIBIT R-2, RDT&E Budget Ite	em Justification			DATE:				
,					F	ebruary 2005		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	` '						
RDT&E, N /BA-7 Operational System Development	0206623M Mar	rine Corps Gr	round Comba	t/Supporting	Arms System	ıs		
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	40.947	51.421	48.409	44.130	35.669	36.450	32.327	31.960
C0021 Assault Amphibious Vehicle 7A1 (AAV7A1)	0.723	0.364	0.781	0.803	0.832	0.853	0.878	0.894
C1555 Light Armored Vehicle (LAV) PIP	3.877	15.130	12.179	5.482	1.391	1.387	1.417	1.441
C1901 Marine Corps Ground Weaponry PIP	9.873	3.063	6.932	9.029	7.463	7.706	7.670	7.402
C2086 Marine Enhanced Program (MEP)	2.194	2.629	2.711	2.571	2.671	2.708	2.766	2.818
B2237 Amphibious Vehicle Test Branch (AVTB)	0.000	0.804	0.836	0.855	0.884	0.903	0.929	0.947
C2503 Family of Combat Equip Support & Services	3.401	3.923	7.397	9.379	11.472	13.110	10.484	10.637
C2928 EIFGSWS (HIMARS)	6.266	2.996	4.145	6.150	2.374	0.489	0.000	0.000
C3098 Fire Support Systems	10.050	12.079	11.645	7.680	7.413	8.679	7.550	7.248
C4002 Family of Raid Reconnaissance	3.539	3.401	1.783	2.181	1.169	0.615	0.633	0.573
C9278 Integrated Digital Camera Riflescope	0.000	0.989	0.000	0.000	0.000	0.000	0.000	0.000
C9279 Body Armor Upgradera Riflescope	1.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C9641 LAV Integ Digital & Collaboration Enviornment	0.000	1.982	0.000	0.000	0.000	0.000	0.000	0.000
C9642 Compl Medal Oxide Semiconductor (CMOS)	0.000	0.990	0.000	0.000	0.000	0.000	0.000	0.000
C9643 Marine Advanced Combat Suit MACS)	0.000	2.081	0.000	0.000	0.000	0.000	0.000	0.000
C9644 Anti-Oxidant Micronutrients Program	0.000	0.990	0.000	0.000	0.000	0.000	0.000	0.000
Quantity of RDT&E Articles								

EXHIBIT R-2, RDT&E Budget Item Justifi	EXHIBIT R-2, RDT&E Budget Item Justification			
		February 2005		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT (PE) NAME AND NO.			
RDT&E, N /BA-7 Operational System Development	0206623M Marine Corps Ground Comb	at/Supporting Arms Systems		

#### (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, and product improvements to the family of LAVs. 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.

#### B. PROGRAM CHANGE SUMMARY

	FY2004	FY 2005	FY 2006	FY 2007
(U) FY 2005 President's Budget:	41.960	44.828	59.852	55.668
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases		7.100		
(U) POM 06 Core Adjustment			8.422	4.814
(U) Reprogrammings	-0.404		-19.995	-14.990
(U) SBIR/STTR Transfer	-0.609			
(U) Minor Affordability Adjustment		-0.507	0.130	-1.362
(U) FY 2006 President's Budget:	40.947	51.421	48.409	44.130

### CHANGE SUMMARY EXPLANATION:

(U) Funding: See Above.

(U) Schedule:

(U) Technical: Not Applicable.

FXHIRIT R-2a	RDT&E Project Justification					DATE:					
						5,112.	Fe	bruary 200	5		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEME 0206623M Marine	_				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	Systems				U	C1555 Light /	IP				
COST (\$ in Millions)	FY	2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Project Cost		3.877	15.130	12.179	5.482	1.391	1.387	1.417	1.44		
RDT&E Articles Qty											
(U) A. MISSION DESCRIPTION AND BUDGET ITE	EM JUSTIFICATION:										
The Light Armored Vehicle Family of Vehicles (LAV For provides a logistically self-contained, highly mobile, and	· ·	_			_	_					

Communication (LAV C2) Program, the LAV Lethality Program, and the LAV Reliability, Availability & Maintainability (LAV RAM) Program. These programs will ensure that 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 Lethality Program will upgrade the LAV 25's M242 gun and associated hardware and software necessary to enable the firing of M919 25mm Armor Piercing, Fin Stabilized, Discarding

### (II) D. ACCOMDI ISUMENTS/DI ANNED DDOCDAM.

Sabot (Depleted Uranium) with tracer ammunition.

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	3.693	1.222	0.000	0.000
RDT&E Articles Qty				
LAV SLEP ITSS: Develop ITSS prototypes, PMO & matrix s	support, PMO travel, Contracted Advisory Ass	istance Services (CAAS) and D	T/OT of ITSS prototypes.	
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.184	1.424	1.118	1.345
DDT9 F Antique Otto				
RDT&E Articles Qty				
LAV RAM: Research and development of numerous LAV RA	M projects to address minor modification, safe	ety, and obsolescence issues.		
LAV RAM: Research and development of numerous LAV RA	M projects to address minor modification, safe	ety, and obsolescence issues.	FY 2006	FY 2007
			FY 2006 11.061	FY 2007 <b>2.760</b>
LAV RAM: Research and development of numerous LAV RA  COST (\$ in Millions)	FY 2004	FY 2005		<del></del>
LAV RAM: Research and development of numerous LAV RA  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost	FY 2004 0.000	FY 2005 12.484	11.061	<del></del>
LAV RAM: Research and development of numerous LAV RA  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty	FY 2004 0.000	FY 2005 12.484	11.061	<del></del>
LAV RAM: Research and development of numerous LAV RA  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  LAV C2: LAV-C2 prototype development, demonstration and	FY 2004 0.000  integration efforts, PMO & matrix support, Pl	FY 2005 12.484 MO travel, CAAS in support of	11.061 LAV-C2.	2.760

LAV LETHALITY: System Development, Demonstration and integration efforts, PMO & matrix support, PMO travel & test ammo procurement in support of the LAV Lethality.

(U) Total \$ 3.877 15.130 12.179 5.482

EXHIBIT R-2a,	RDT&E Proj	ject Justificat	ion				DATE:					
APPROPRIATION/BUDGET ACTIVITY	02	206623M Mar		BER AND NAM	ME ht/Supporting A	rms	PROJECT NUM	MBER AND N				
RDT&E, N /BA-7 Operational Sys Dev	Sy	ystems				C1555 Light Armored Vehicle (LAV) PIP						
(U) PROJECT CHANGE SUMMARY:												
		FY2004	FY2005	FY2006	FY2007							
(U) FY 2005 President's Budget		4.169	15.267	31.790	23.923							
(U) Adjustments from the President's Budget:												
(U) Congressional/OSD Program Reductions												
(U) Congressional Rescissions												
(U) Congressional Increases												
(U) Reprogrammings		-0.292		-19.244	-18.265							
(U) SBIR/STTR Transfer												
(U) Minor Affordability Adjustment			-0.137	-0.367	-0.176							
(U) FY 2006 President's Budget:		3.877	15.130	12.179	5.482							
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.												
(U) C. OTHER PROGRAM FUNDING SUMMARY: <u>Line Item No. &amp; Name</u>	FY 2004	FY 200 <u>5</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost		
(U) PMC, 203800, LAV PIP	35.823	62.844	59.699	32.325	42.053	36.553	6.103	5.645	Cont	Cont		
(U) PANMC, 138800, LAV LETHALITY	00.020	02.044	0.000	1.351	0.579	5.444	5.473	0	Cont	Cont		
(-,						• • • • • • • • • • • • • • • • • • • •		•	-			
(U) Related RDT&E: C9641 LAV IDE		1.982										

EXHIBIT R-2a,	RDT&E Project Justification	DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
0206623M Marine Corps	0206623M Marine Corps Ground Combat/Supporting Arms	
RDT&E, N /BA-7 Operational Sys Dev	Systems	C1555 Light Armored Vehicle (LAV) PIP
,		` ,
` '	ice Life Extension Program (SLEP) which is comprised of the Basic SLEP and is through 2015, an increase of 12 to 15 years beyond its original projected us	, , , ,

- (U) D. ACQUISITION STRATEGY: The LAV Service Life Extension Program (SLEP) which is comprised of the Basic SLEP and the Improved Thermal Sight System, is designed to extend the service life of the LAV Family of Vehicles through 2015, an increase of 12 to 15 years beyond its original projected useful life. This utilizes both developmental and off-the-shelf technologies to enhance survivability, lethality, mobility and sustainability while simultaneously reducing the cost of ownership. The Marine Corps 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.
- (U) D. ACQUISITION STRATEGY: The LAV C2 upgrade will be utilizing commercial off-the-shelf, government off-the-shelf, and non-developmental item hardware and software to provide an integrated suite capable of voice and data transmissions. It is anticipated that the majority of the effort will be the integration of existing hardware and software for this upgrade. To the maximum extent possible, components from both the Marine Corps and Army Common Hardware Suites will be utilized to reduce costs. The system architecture has been determined through a Tailored Executive Analysis. The integration of the government specified hardware and software will be conducted through a competitive process. Two contractors will be selected to fabricate prototypes which will be subjected to a limited user evaluation (LUE). The results of the LUE and firm production prices will lead to a down-selection to a single source for the completion of the System Development and Demonstration and Production phases.
- (U) D. ACQUISITION STRATEGY: The LAV RAM project funds numerous low-dollar, yet extremely important minor modifications, support equipment and tools and other such projects that increase LAV reliability and readiness while simultaneously reducing operations and support costs. The Marine Corps, PM-LAV, Sustainment Management Team uses multidisciplined integrated project 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.
- (U) D. ACQUISITION STRATEGY: The LAV Lethality upgrade will provide for the use of depleted uranium (DU) ammunition during combat operations to increase the lethality of the LAV 25's M242 machine gun. The Bradley Fighting Vehicle (BFV) uses the M242 and has the capability to fire DU ammunition. PM, LAV will buy standard components for the M242 and have them installed on the LAV 25's M242. A sole source contract will be initiated with Raytheon to insert the DU firing tables into the Improved Thermal Sight System utilized by the LAV 25. This contract will also include taking the Army's existing technical manual (TM) data on the upgraded M242 components and incorporate it into the LAV 25 TM data.

EXHIBIT R-2a, RDT&E	Project Justification	DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
	0206623M Marine Corps Ground Combat/Supporting Arms	
RDT&E, N /BA-7 Operational Sys Dev	Systems	C1555 Light Armored Vehicle (LAV) PIP

### (U) E. MAJOR PERFORMERS:

#### LAV SLEP/ITSS

FY04 Raytheon Company, McKinney, TX. DT In-Process. Oct 03

DRS Corporation, Fort Walton Beach, FLA. System Technical Support (STS) Support. Oct 03. SURVICE Engineering Company, Belcamp, MD. ITSS development & test support. Oct 03.

MCCDC, Quantico, VA, OT preparation. Oct 04. TACOM, Warren, MI. PMO support. Oct 04.

FY05 Raytheon Company, McKinney, TX. OT to be conducted/production award. Oct 04.

DRS Corporation, Fort Walton Beach, FLA. -complete the installation. Oct 04.

MCCDC, Quantico, VA, OT completion. Oct 04.

SURVICE Engineering Company, Belcamp, MD. ITSS test support. Oct 04.

#### LAV RAM

FY04 Various FY05 Various FY06 Various FY07 Various

LAV C2 Upgrade Program starts in FY 05.

FY05-07 Major performers have not been determined as of this date.

**LAV LETHALITY** Program starts in FY 07.

FY07 Raytheon Company, McKinney, TX. Integration of DU firing tables into ITSS. Jan 07.

	Exhibit	R-3 Cost Analysis				DATE:				Feb	ruary 2005			
APPROPRIATION/BUDGET ACTIVIT			ELEMENT					PROJEC <sup>®</sup>	T NUMBER					
		0206623M	Marine Corps	Ground (	Combat/S	Supporting	Arms							
RDT&E, N /BA 7 Operational Sys D	ev	Systems	marmo corpo	o o o o o o o o o o o o o o o o o o o	J 0 1 1 1 J 0 1	apporting	70	C1555 Light Armored Vehicle (LAV) PIP						
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
Product Development	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Primary Hardware Dev Spt	CPFF	GTRI/SURVICE, Bellcamp	ME 1.189									0.000	1.189	1.18
Gov't Dev Engineering	MIPR	In-House Product Dev	1.560									0.000	1.560	1.56
Product Development (ITSS)	Various	Raytheon, McKinney TX	22.034	0.835	3Q04							Cont	Cont	
Product Development (RAM)	Various	Various	2.074	0.184	VAR	1.212	VAR	0.986	VAR	1.115	VAR	Cont	Cont	
Product Development (C2-GFE)	Various	TBD				1.858	2Q05	1.941	1Q06					
Product Development (C2)	Various	TBD				9.838	3Q05	6.242	1Q06	1.081	1Q07	0.000	17.161	
CAAS	MIPR	SURVICE, Bellcamp, MD	0.275	0.275	1Q04	0.143	1Q05	0.145	1Q06				0.838	
Subtotal Product Dev	TWIII IX	CORVICE, Boildamp, WB	27.132			13.051		9.314		2.196		Cont	Cont	
Remarks:	<u> </u>		27.132	1.234		13.03	'	3.514	•	2.130	<u>'I</u>	COIL	Oon	<u> </u>
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
Support	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Technical Eng Services (C2)	MIPR	TACOM	0.000			0.135	1Q05	0.147	1Q06			0.000	0.282	0.59
Subtotal Support			0.000	0.000		0.135	5	0.147	7	0.000	)	0.000	0.282	0.59
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
Test & Evaluation	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Devl/Oper Test & Eval (SLEP/ITSS)	MIPR	Yuma Prv Ground, AZ	6.155	1.894	Various	0.359	Various						8.408	
Devl/Oper Test & Eval	MIPR	Aberdeen Test Center, MI											2.575	
Devl/Oper Test & Eval (SLEP/ITSS)	MIPR	MCOTEA, Quantico, VA	0.725	0.197	Various	0.604	Various						1.526	
Devl/Oper Test & Eval (C2)	MIPR	TBD					Various	1.691	Various	1.437	1Q07		3.128	
Devl/Oper Test & Eval (Lethality)	MIPR	TBD								0.730	3Q07		0.730	
Subtotal T&E			9.455	2.091		0.963	3	1.691	l	2.167	<u>'</u>	Cont	Cont	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
Program Management	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Program Management	VAR	TACOM, Warren, MI	2.810	0.245	1Q04	0.896	Various	0.877	Various	1.024	Various	Cont	Cont	
Matrix Support	MIPR	ARDEC/NVL/TACOM, MI	0.796	0.247	Various	0.085	Various	0.150	Various	0.095	Various	Cont	Cont	
0.11.1.19	+		3.606	0.492		0.981	ı	1.027	7	1.119		Cont	Cont	
Subtotal Management														
Remarks:	1	•												

R-1 SHOPPING LIST - Item No. 186

	Exhibi	it R-4/4a Schedule Profile	/Detail				DATE:			February 200	05
APPROPRIATION/BUD	GET ACTIVITY	PROGRAM ELEMENT	_				PROJECT	NUMBER A	AND NAME		
RDT&E, N /BA 7 Opera	ational Svs. Dov	0206623M Marine Corp Systems	os Ground	Combat/S	upporting		C1555 Lig	ht Armore	d Vehicle (L	۵V) PIP	
(U) D. SCHEDULE PRO	•	Oystems					O 1000 Eigi	III AIIIIOICE	Vernicie (L	-AV) I II	
LAV SLEP	)										
	Milestone 0: Milestone I:	1st Qtr, FY 1998 2nd Qtr, FY 1999		Milestone I Contract Av		2nd Qtr, FY 3rd Qtr, FY					
	Milestone II: DT / OT:	2nd Qtr, FY 2000 2nd Qtr, FY 2001		IOC: FOC:		2nd Qtr, F' 2nd Qtr, F'					
LAV C2	NAME OF THE OWNER O	0d 0.! EV0000		On advant Av		01 04 5	v 0007				
	Milestone A: Milestone B:	2nd Qtr, FY2000 2nd Qtr, FY2005		Contract Av	wara:	2nd Qtr, F' 2nd Qtr, F'					
	DT / OT: Milestone C:	4th Qtr, FY 2006 2nd Qtr, FY 2007		FOC:		4th Qtr, FY					
LAV LETHALITY											
<u> </u>	Milestone A: Milestone B: DT / OT:	Not Required 1st Qtr, FY 2007 3rd Qtr, FY2007		Contract Av IOC: FOC:	ward:	1st Qtr, FY 4th Qtr, FY 2nd Qtr, FY	2008				
	Milestone C:	4th Qtr, FY2007									
Program Funding		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(APPN, BLI #, NOMEN) (U) RDT&E,N	1	3.877	15.130	12.179	5.482	1.391	1.387	1.417	1.441	Cont	Cont
(U) RDT&E, N #C9641	LAV IDE	0.000	1.982	_	0.000			0.000	0.000	Cont	Cont
(U) PMC, BLI# 203800 (U) PANMC, 138800, L		35.823	62.844	59.699 0.000	32.325 1.351	42.053 0.579	36.553 5.444	6.103 5.473	5.645 0	Cont Cont	Cont Cont

	R-4/4a Schedule Profile/D	)etail						February 2	005	
	PROGRAM ELEMENT 0206623M Marine Corps Systems	Ground Combat/S	Supporting	Arms	PROJECT C1555 Lig					
LAV SCHEDUL		FY 2003	FY 2004	FY 2005			FY 2008	FY 2009	FY 2010	FY 2011
LAV SLEP										
Milestone	e III:									
Contract	Award:									
IOC:			2Q							
FOC:								2Q		
LAV C2										
Milestone										
Milestone				2Q						
DT / OT:					4Q					
Milestone	e C:					2Q				
Contract	Award:					2Q				
IOC:								2Q		
FOC:										4Q
LAV LETHALITY										
Milestone										
Milestone						1Q				
DT / OT:						3Q				
Milestone						4Q				
Contract	Award:						1Q			
IOC: FOC:							4Q		2Q	

EXH	IIBIT R-2a, RDT&E Project Jι	ustification				DATE:			
							F	ebruary 2005	i
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	UMBER AND	NAME						
	0206623M Marine Corps	s Ground Co	ombat/Supp	orting Arms					
DT&E, N /BA-7 Operational Sys Dev	Systems				C1901 Marine Corps Ground Weaponry PIP				
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY10	FY11
roject Cost		9.873	3.063	6.932	9.029	7.463	7.706	7.670	7.40
DT&E Articles Qty									
J) A. MISSION DESCRIPTION AND BUDG	SET ITEM JUSTIFICATION:								

- Optics, Family of Individual Optics, Thermal Weapons Sight, Small Unit Remote Scouting System (SURSS) and monitors national and international weapons development.
- (U) MARINE CORPS AIR GROUND COMBAT CENTER (MCAGCC) RANGE INSTRUMENTATION: Converges training occurring at the Marine Air Ground Task Force Training Command (MAGTFTC), Twenty-Nine Palms, CA with training of other forces occurring at participating Joint National Training Center (JNTC) ranges and with the standing Joint Task Force (JTF), Suffolk, VA. The Marine Corps JNTC strategy is to integrate Live, Virtual, and Constructive (L-V-C) training environments currently utilized or being developed. FY04 funds developed architecture and interfaces to integrate range instrumentation and simulation to digitally capture dismounted infantry and weapon system platform operations, to record command and control communications for after action, to provide integrated targetry, battlefield effects and Military Operations in Urban Terrain (MOUT) training environments, and designed the protocol transferring the correlated digital exercise picture to other JNTC recipients and the Joint Training and Simulation Center (JTASC) within the Joint Forces Command.

#### (U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.600	0.360
RDT&E Articles Qty				

Automatic Rifle: This funding will provide field testing and evaluation of test results and program management in support of the program development for the new Marine Corps Automatic Rifles.

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.450	1.350
RDT&E Articles Qty				

Company and Battalion Mortars: This funding will be used to provide system development and demonstration, pre-Milestone C activities, and purchasing Nondevelopmental Items (NDI) for testing and evaluation of candidate systems and modifications.

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.308
RDT&F Articles Qtv				

Family of Individual Optics: This funding will be utilized to support improvements on the technology that is currently used. Research efforts will evaluate the possibility of combining / integrating disparate sensor technology to increase the overall capability. One example will be combining the Infrared (IR) and Image Intensifier (I2) technologies into one system.

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.100	0.050
RDT&E Articles Qty				

Rifle Combat Optics: This funding will be predominantly expended during the test and evaluation phase of this program. Samples of potential material solutions will need to be procured to accomplish a limited user evaluation and complete technical and environmental testing.

	IBIT R-2a, RDT&E Project Justification		DATE:	
			F	ebruary 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			
	0206623M Marine Corps Ground Combat/			
RDT&E, N /BA-7 Operational Sys Dev	Systems	C1901 Mari	ne Corps Ground Weapo	onry PIP
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.356	0.988	0.999	1.061
RDT&E Articles Qty	0.000	0.500	0.555	1.001
infantry/reconnaissance individual /crew-sei included the new M40A3 Sniper Rifle, the r Issues particularly related to safety are recur	n and Marine Corps unique activities for evaluation of sived weapons. Past years' efforts have impacted the saft ortar systems, and the current Marine Expeditionary Uring events from year to year that require immediate attrivances that will significantly enhance the operational unique.	ety of M2 Machine Guns and M249 nit Special Operations Capability ( ention to maintain an operational re	9 Squad Automatic Weapons MEU SOC) .45 caliber pisto eadiness posture. Likewise, v	s and have ol efforts.
OOOT (f) in Milliann)	F)/ 0004	EV 0005	EV 0000	FV 0007
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.914	0.748	1.243	0.480
RDT&E Articles Qty	CC). For describing and for development 1			
increasingly demanding Operational Requir	(ASD): Funds will be used for development, demonstration	on and testing of product improvem	nents and block upgrades to r	neet
* * * * * *		EV 2005	EV 2000	FV 0007
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	FY 2004 1.088	FY 2005 <b>1.091</b>	FY 2006 <b>2.240</b>	FY 2007 <b>2.112</b>
RDT&E Articles Qty	1.000	1.091	2.240	2.112
devices. Provides for In-Service Engineering	and Marine Corps unique activities for evaluation of sa g Agent (ISEA) support at Naval Surface Warfare Cente ments for Image Intensification (I2) and fused multispec	r (NSWC), Crane, IN. Participate	with Army Program Manage	er (PM) -
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.	Agent (ISEA) support at Naval Surface Warfare Cente ments for Image Intensification (I2) and fused multispec	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to suppo	with Army Program Manage rt enhanced systems develop	er (PM) - oment and
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)	Agent (ISEA) support at Naval Surface Warfare Cente	r (NSWC), Crane, IN. Participate	with Army Program Manage	er (PM) - oment and
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhances review of tests.  COST (\$ in Millions)	g Agent (ISEA) support at Naval Surface Warfare Cente ments for Image Intensification (I2) and fused multispec FY 2004	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to suppo	with Army Program Manage rt enhanced systems develop	er (PM) - oment and FY 2007
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhances review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty	g Agent (ISEA) support at Naval Surface Warfare Cente ments for Image Intensification (I2) and fused multispec FY 2004	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to suppo	with Army Program Manage rt enhanced systems develop	er (PM) - oment and FY 2007
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhances review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispection (I2) and fused multi	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to suppo	with Army Program Manage rt enhanced systems develop  FY 2006  0.300	er (PM) - oment and FY 2007 0.308
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV):  COST (\$ in Millions)	g Agent (ISEA) support at Naval Surface Warfare Center ments for Image Intensification (I2) and fused multispectures of the property of the pr	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to suppo	with Army Program Manage rt enhanced systems develop	er (PM) - oment and FY 2007
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhances review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to support FY 2005  0.181  rsenal.	with Army Program Manage rt enhanced systems develop  FY 2006  0.300  FY 2006	er (PM) - oment and FY 2007 0.308
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhances review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004	r (NSWC), Crane, IN. Participate etral weapon sight. Travel to support of the sup	with Army Program Manage rt enhanced systems develop  FY 2006  0.300  FY 2006	er (PM) - oment and FY 2007 0.308
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Initial Issue: Provided to units during the in	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  itial issue of equipment for spare parts in the beginning	r (NSWC), Crane, IN. Participate etral weapon sight. Travel to support of the sup	with Army Program Manage rt enhanced systems develop  FY 2006  0.300  FY 2006  0.000	FY 2007 0.308
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fundable COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Initial Issue: Provided to units during the incompliance of the cost of	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000	r (NSWC), Crane, IN. Participate etral weapon sight. Travel to support of the sup	with Army Program Manage rt enhanced systems develop  FY 2006  0.300  FY 2006	er (PM) - oment and FY 2007 0.308
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Initial Issue: Provided to units during the in	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  itial issue of equipment for spare parts in the beginning FY 2004	r (NSWC), Crane, IN. Participate tral weapon sight. Travel to support of the supp	with Army Program Manage rt enhanced systems develop  FY 2006 0.300  FY 2006 0.000  FY 2006	FY 2007
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to Units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Thermal Weapons Sight (TWS)[AN/PAS] aimport reticle (mechanical, quadrant-style mechanical, non-quadrant style, computer-dispersed in the complex computer-dispersed in the complex computer-dispersed in the computer dispersed in the computer disper	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  itial issue of equipment for spare parts in the beginning  FY 2004  0.055  13: Provided for joint participation in Pre-Planned Procieght), mounting brackets for future small arms weapons riven sight).	r (NSWC), Crane, IN. Participate etral weapon sight. Travel to support of the sup	with Army Program Manage rt enhanced systems develop  FY 2006 0.300  FY 2006 0.000  FY 2006 0.000  remote image transfer, laser automated aimport reticle (n	FY 2007  0.308  FY 2007  0.000  FY 2007  0.000  FY 2007  0.000
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Thermal Weapons Sight (TWS)[AN/PAS aimport reticle (mechanical, quadrant-style mechanical, non-quadrant style, computer-dCOST (\$ in Millions)	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  TY 2004  0.055  13: Provided for joint participation in Pre-Planned Procieght), mounting brackets for future small arms weaponstiven sight).  FY 2004  FY 2004	FY 2005  FY 2005  O.181  FY 2005  O.181  FY 2005  O.181  FY 2015  O.191  FY 2005  O.191  FY 2005  FY 2005  O.191  FY 2005  FY 2005  O.191  FY 2005  FY 2005  O.191  FY 2005	with Army Program Manage rt enhanced systems develop  FY 2006 0.300  FY 2006 0.000  FY 2006 0.000  remote image transfer, laser automated aimport reticle (n	FY 2007  O.308  FY 2007  O.000  FY 2007  O.000  FY 2007  FY 2007  FY 2007  FY 2007
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Thermal Weapons Sight (TWS)[AN/PAS aimport reticle (mechanical, quadrant-style mechanical, non-quadrant style, computer-d COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  itial issue of equipment for spare parts in the beginning  FY 2004  0.055  13: Provided for joint participation in Pre-Planned Procieght), mounting brackets for future small arms weapons riven sight).	r (NSWC), Crane, IN. Participate etral weapon sight. Travel to support of the sup	with Army Program Manage rt enhanced systems develop  FY 2006 0.300  FY 2006 0.000  FY 2006 0.000  remote image transfer, laser automated aimport reticle (n	FY 2007  0.308  FY 2007  0.000  FY 2007  0.000  FY 2007  0.000
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Veapons Sight (TWS)[AN/PAS]  aimport reticle (mechanical, quadrant-style mechanical, non-quadrant style, computer-d COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  itial issue of equipment for spare parts in the beginning  FY 2004  0.055  13: Provided for joint participation in Pre-Planned Procieght), mounting brackets for future small arms weapons riven sight).  FY 2004  5.722	FY 2005 O.111  FY 2005 O.111  Increment (P3I) for TWS – s, vertical angle measurement, and FY 2005 O.000	with Army Program Manage rt enhanced systems develop  FY 2006 0.300  FY 2006 0.000  FY 2006 0.000  remote image transfer, laser automated aimport reticle (n  FY 2006 0.000	FY 2007  0.000
devices. Provides for In-Service Engineering Night Vision at Ft. Belvoir on new enhancer review of tests.  COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Tactical Unmanned Vehicle (TUV): Fund COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Initial Issue: Provided to units during the in COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  Thermal Weapons Sight (TWS)[AN/PAS aimport reticle (mechanical, quadrant-style mechanical, non-quadrant style, computer-d COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost RDT&E Articles Qty  MCAGCC Range Instrumentation: Integ	Agent (ISEA) support at Naval Surface Warfare Centerents for Image Intensification (I2) and fused multispect FY 2004  1.738  Is will be used for developmental testing at Redstone A  FY 2004  0.000  TY 2004  0.055  13: Provided for joint participation in Pre-Planned Procieght), mounting brackets for future small arms weaponstiven sight).  FY 2004  FY 2004	FY 2005 O.111  FY 2005 O.111  Increment (P3I) for TWS – s, vertical angle measurement, and FY 2005 O.000  FY 2005 FY 2005 O.111  Increment (P3I) for TWS – s, vertical angle measurement, and FY 2005 O.000	rt enhanced systems develop  FY 2006 0.300  FY 2006 0.000  FY 2006 0.000  FY 2006 0.000  remote image transfer, laser automated aimport reticle (n  FY 2006 0.000  ntegration, radio voice capture	FY 2007  0.000

EXHIBI	T R-2a, RDT&E	Project Jus	tification			]	DATE:			
								Fe	ebruary 2005	5
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT NU	MBER AND	NAME						
	0206623M Ma	arine Corps	Ground Cor	mbat/Suppo	rting Arms					
RDT&E, N /BA-7 Operational Sys Dev	Systems					C1901 Marin	e Corps Gro	und Weapoi	nry PIP	
(U) PROJECT CHANGE SUMMARY:										
	FY2004	FY2005	FY2006	FY2007						
(U) FY 2005 President's Budget:	8.797	3.101	4.072	4.253						
(U) Adjustments from the President's Budget:										
(U) Congressional Program Reductions										
(U) Congressional Rescissions (U) Congressional Increases										
(U) POM FY06 CORE Adjustment			2.696	4.961						
(U) Reprogrammings	1.242		0.150	0.150						
(U) Small Business Innovation Research	-0.166									
(U) Minor Affordability Adjustment		-0.038	0.014	-0.335						
(U) FY 2006 President's Budget:	9.873	3.063	6.932	9.029						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: See above.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMA	RY:									
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) PMC (BLI#206100) Mod Kits IWS	0.000	0.000	10.638	10.219	10.261	8.905	9.069	9.214	Cont	Cont
(U) PMC (BLI#220900) Mod Kits IWS	4.127	3.236	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.363
(U) PMC (BLI#222000) Under \$5 Million	14.158	6.762	7.743	10.871	26.028	33.380	12.333	10.629	Cont	Cont
(U) PMC (BLI#233400) Modular Weapon System	13.122	10.013	23.604	0.000	0.000	0.000	0.000	0.000	0.000	46.739
(U) PMC (BLI#493000) Night Vision Equipment	31.447	41.639	20.795	17.285	28.668	37.899	26.438	26.182	Cont	Cont
(U) PMC (BLI#473400) SURSS	1.820	8.832	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.652
(U) PMC (BLI#474700) INTEL SP EQP SURSS	0.000	0.000	16.029	12.848	8.877	14.552	4.601	4.270	Cont	Cont
(U) PMC (BLI# 653200) Trng Dev/Sims	42.118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	42.118

#### (U) Related RDT&E:

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

#### (U) D. ACQUISITION STRATEGY:

- (U) These programs range from off-the-shelf modifications to developmental items. Modification covers safety, reliability, and technology up-grades to meet Marine Corps requirements.
- (U) MCAGCC Range Instrumentation Award a sole source development contract (June 04) to SRI International for IGRS Display Upgrades, Systems Integration, Radio Voice Capture/AAR Integration, Image Tracking, and Live-to-CACCTUS Integration. Awarded an Aviation Engineering Analysis contract to Sensis Corporation, Apr 04 (T&M). Award a Systems Engineering/Acquisition Support Contract to MKI Systems, Inc., April 04 (FFP).

#### (U) E. MAJOR PERFORMERS:

- 1Qtr 04, 1Qtr 05, 1Qtr 06, 1Qtr 07 NSWC, Crane, IN Product development.
- 3Qtr 04 SRI International, Menlo Park, CA Product development.
- 3Qtr 04 Sensis Corporation, Dewitt, NY Development support.
- 3Qtr 04 MKI Systems, Orlando, FL Management support.
- 4Qtr 04, 1Qtr 05, 1Qtr 06, 1Qtr 07 AeroVironment, Simi Valley, CA Product development.

	Ex	chibit R-3 Cost Analysis				DATE:					February	y 2005		
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM ELEMENT				PROJE	CT NUM	BER AN	D NAME					
		0206623M Marine Cor												
RDT&E, N /BA 7 Operation		Ground Combat/Supp				C1901 I		orps Gr	ound We	aponry		1		
Cost Categories	Contract	Performing	Total	E) ( 0 (	FY 04	E) ( 05	FY 05	E) ( 00	FY 06	E) ( 07	FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
PRODUCT DEVELOPMENT	& Type	Location SEE BELOW	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Inf Wpns Mods	WR/RCP	MCCDC, Quantico, VA	0.867			0.051	1Q05	0.060	1Q06	0.051	1Q07	Cont	Cont	
Inf Wpns Mods	WR	WTBN. Quantico, VA	0.884			0.031	2Q05	0.220	1Q06	0.031	1Q07	Cont	Cont	
Inf Wpns Mods	MILSTRIP	MCSC. Quantico, VA	0.104	0.024	1Q04	0.204	2005	0.229	2Q06	0.223	2Q07	Cont	Cont	
SURSS	RCP	AeroVironment, Simi Valley, CA		0.318	4Q04	0.360	1Q05	0.715	1Q06	0.092	1Q07	Cont	Cont	
SURSS	RCP	MCSC. Quantico. VA		0.030	4Q04	0.300	1000	0.713	1000	0.032	IQUI	0	0.030	
Automatic Rifle	RCP	TBD		0.000	7007			0.050	1Q06	0.010	1Q07	Cont	Cont	
Company/Battalion Mortar	RCP	TBD						0.200	1Q06	0.200	1Q07	Cont	Cont	
Company/Battalion Mortar	Var	TBD. Various						0.900	1Q06	0.800	1Q07	Cont	Cont	
Family of Individual Optics	WR/RCP	NSWC. Crane. IN						0.000	1000	2.803	1Q07	Cont	Cont	
Nt. Vision Mod	WR/RCP	NSWC, Crane, IN	0.414	0.784	1Q04	0.684	1Q05	1.807	1Q06	1.653	1Q07	Cont	Cont	
Nt. Vision Mod	MIPR	Night Vision Lab, Ft Belvoir, VA	0.587	0.100	1Q04	0.105	1Q05	0.110	1Q06	0.115	1Q07	Cont	Cont	1
TWS	MIPR	Night Vision Lab, Ft Belvoir, VA	0.262	0.055	1Q04	0.087	1Q03	50		30		Cont	Cont	1
Initial Issue	MIPR	TBD	0.202	0.000	1007	-0.056	1Q05					0	-0.056	
TUV	MIPR	Redstone Arsenal, AL		1.738	1Q04	0.181	1Q05	0.300	1Q06	0.308	1Q07	Cont	Cont	
MCAGCC Range Inst	RCP(FFP)	SRI Int'l, Menio Park, CA		3.675	3Q04	0	. 400	0.000	1400	0.000	1401	00.11	3.675	
Subtotal Product Dev	1101 (111)	or a many mornio i amy or a	2.314	6.724	040.	1.616		4.591		6.547		Cont	Cont	
Remarks:		l	2.014	0.1.24		1.010		4.001		0.041	I.	Cont	COIR	
Cost Categories	Contract	Performing	Total	1	FY 04		FY 05		FY 06	I	FY 07		I	Target
(Tailor to WBS, or System/Ite		Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		Contrac
PROGRAM SUPPORT		SEE BELOW												
Inf Wpns Mods	WR	MCSC, Quantico, VA	0.677	0.088	1Q04	0.150	1Q05	0.100	1Q06	0.100	1Q07	Cont	Cont	
Inf Wpns Mods	RCP	BAEST, Stafford, VA	0.739	0.108	1Q04	0.386	1Q05	0.390	1Q06	0.395	1Q07	Cont	Cont	
Inf Wpns Mods	RCP	MCSC, Quantico, VA		0.136	2Q04	0.013	1Q05					0.000	0.149	
SURSS	RCP	BAEST, Stafford, VA	0.358	0.179	1Q04	0.179	1Q05	0.179	1Q06	0.179	1Q07	Cont	Cont	
SURSS (Civ Sal)	WR	NSWC, Dahlgren, VA		0.165	1Q04	0.165	1Q05	0.165	1Q06	0.165	1Q07	Cont	Cont	
SURSS	WR	MCSC, Quantico, VA	0.034	0.007	1Q04							0.000	0.041	
SURSS	RCP	MCSC, Quantico, VA		0.090	2Q04									
	RCP	AeroVironment, Simi Valley, CA		0.094	2Q04							0.000	0.094	
SURSS		Joint Spectrum Ctr, Annapolis, MD		0.031	1Q04	0.044	1Q05	0.044	1Q06	0.044	1Q07	Cont	Cont	
SURSS SURSS	MIPR	Joint Spectrum Ctr, Annapolis, MD				1		0.200	1Q06	0.200	1Q07	Cont	Cont	
	MIPR RCP	TBD				<u></u>								
SURSS Automatic Rifle Company/Battalion Mortar								0.100	1Q06	0.100	1Q07	Cont	Cont	
SURSS Automatic Rifle	RCP RCP WR	TBD	0.179	0.126	1Q04	0.137	1Q05		1Q06 1Q06	0.100 0.159	1Q07 1Q07	Cont Cont	Cont Cont	
SURSS Automatic Rifle Company/Battalion Mortar	RCP RCP	TBD TBD	0.179 0.297	0.126 0.053	1Q04 2Q04	0.137 0.140	1Q05 2Q05	0.100				_		
SURSS Automatic Rifle Company/Battalion Mortar Nt Vision Mod	RCP RCP WR	TBD TBD MCSC, Quantico, VA						0.100 0.148	1Q06	0.159	1Q07	Cont	Cont	
SURSS Automatic Rifle Company/Battalion Mortar Nt Vision Mod Nt Vision Mod	RCP RCP WR RCP	TBD TBD MCSC, Quantico, VA BAEST, Stafford, VA						0.100 0.148	1Q06	0.159 0.160	1Q07 1Q07	Cont Cont	Cont Cont	
SURSS Automatic Rifle Company/Battalion Mortar Nt Vision Mod Nt Vision Mod Family of Individual Optics	RCP RCP WR RCP WR	TBD TBD MCSC, Quantico, VA BAEST, Stafford, VA MCSC, Quantico, VA BAEST, Stafford, VA	0.297			0.140	2Q05	0.100 0.148	1Q06	0.159 0.160	1Q07 1Q07	Cont Cont Cont	Cont Cont Cont	

	Ex	xhibit R-3 Cost Analysis				DATE:					February	2005		
APPROPRIATION/BUDGET A		PROGRAM ELEMENT					CT NUME	BER AND	NAME					
		0206623M Marine Co	•											
RDT&E, N /BA 7 Operationa		Ground Combat/Supp				C1901 N		orps Gro	ound We	aponry				
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or System/Iter		Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award		Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
T&E		SEE BELOW												
Inf Wpns Mods	WR	MCOTEA, Quantico, VA	0.140			0.099	2Q05					0.000	0.239	
Inf Wpns Mods	WR	MCCDC, Quantico, VA	0.285			0.085	2Q05				_	0.000	0.370	
Automatic Rifle	WR	MCOTEA, Quantico, VA						0.350	1Q06	0.150	1Q07	Cont	Cont	
Company/Battalion Mortar	WR	MCOTEA, Quantico, VA						0.250	1Q06	0.250	1Q07	Cont	Cont	
SURSS	TBD	TBD						0.040	2Q06			0.000	0.040	
SURSS	MIPR	MCOTEA, Quantico, VA						0.100	2Q06			0.000	0.100	
Family of Individual Optics	WR	MCOTEA, Quantico, VA								0.205	1Q07	Cont	Cont	
Rifle Combat Optics	WR	MCOTEA, Quantico, VA						0.100	2Q06	0.050	2Q07	Cont	Cont	
Nt Vision Mods	WR	MCOTEA, Quantico, VA	0.125	0.025	2Q04	0.025	2Q05	0.025	2Q06	0.025	2Q07	Cont	Cont	
Subtotal T&E			0.550	0.025		0.209		0.865		0.680		Cont	Cont	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or System/Iter	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
MANAGEMENT		SEE BELOW												
MCAGCC Range Inst	RCP (FFP)	MKI Systems, Orlando, FL	0.000	1.491	3Q04							0.000	1.491	
Subtotal Management			0.000	1.491		0.000		0.000		0.000		Cont	Cont	
Remarks:							•							
Total Cost			5.185	9.873		3.063		6.932		9.029		Cont	Cont	1
		ı												1

			DATE:
	Exhibit R-4/4a Schedule Profile/Detail		February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT I	NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206623M Marine Corps Ground Combat/Supporting Arms Systems	C1901 Mari	ine Corps Ground Weaponry PIP

## FAMILY OF INDIVIDUAL OPTICS

Fiscal Year	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	Total
Individual Marine Infantr	y Weapo	ns Sight	s										
IMIWS MS B (FY06)									OCT 05	SEP 06			
IMIWS MS C (FY07 3rd C	(tr)								<b>—</b> .	APR 07 –	JUN 07		
Marine Handheld/Helmet	Mounte	d Optic											
MHHMO MS B (FY07)										OCT 06	- SEP 07	İ	
MHHMO MS C (FY08 4th	Qtr)									_	JUL 08	- SEP 08	

n <u>Funding Summary</u> BLI #, NOMEN)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
Γ&E,N C1901 Fam of Indiv Optics	0.000	0.000	0.000	3.308	2.410	2.453	2.498	2.542	Cont	Cont
C, BLI# 493000 Fam of Indiv Optics	0.000	0.000	0.000	0.000	7.904	11.243	11.464	11.679	Cont	Cont

		Exhibit R-4/4a Sch	edule Profile/Deta	il				DATE:		ebruary 2005		
PRIAT	ION/BUDGET ACTIVITY	PROGRAM ELEMENT					PROJECT I	NUMBER AN	ID NAME			
E, N /B	A 7 Operational Sys Dev	0206623M Marine Cor	ps Ground Comb	at/Supporti	ng Arms Sy	stems	C1901 Mari	C1901 Marine Corps Ground Weaponry PIP				
	FAMILY OF INDIVIDUA	AL OPTICS	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
	IMIWS											
	MS B				1Q							
	MS C					3Q						
	MHHMO											
	MS B					1Q						
	MS C						4Q					

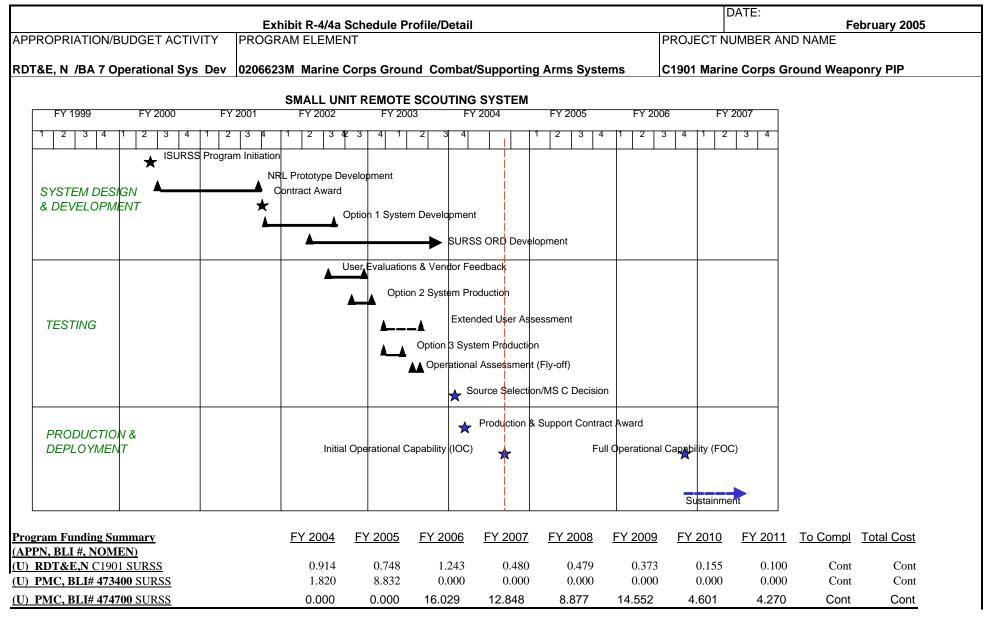


	Exhibit R-4/4a Schedule Profile/Detail		DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT I	NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206623M Marine Corps Ground Combat/Supporting Arms Systems	C1901 Mari	ine Corps Ground Weaponry PIP

Small Unit Remote Scouting System Schedule Detail	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Program Initiation	2Q							
NRL Prototype Development	2Q							
Contract Award		4Q						
Option 1 System Development		4Q						
SURSS ORD Development			2Q					
User Evaluations & Vendor Feedback			3Q					
Option 2 System Production			4Q					
Extended User Assessment				1Q				
Option 3 System Production				1Q				
Operational Assessment (Fly-Off)				3Q				
Source Selection / MS C Decision					1Q			
Production & Support Contract Award					2Q			
IOC					3Q			
FOC							4Q	

	Exhibit R-4/4a Schedule Profile/Detail	DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA 7 Operational Sys Dev	0206623M Marine Corps Ground Combat/Supporting Arms Systems	C1901 Marine Corps Ground Weaponry PIP

### **COMPANY AND BATTALION MORTARS**

						2003	2004	2005	2006	2007	2008	2009	2010	2011	20
D	0	Task Name	Duration	Start	Finish	H1 H2	H1 H2	H1 H2	H1 H2	! H1 H2	2 H1 H2	2 H1 H2	H1 H2	H1	H2 H
1		Pre-MS Activities	631 days	Mon 03/03/03	Mon 08/01/05				h						
2	111	Business Case Analysis	156 days	Mon 03/03/03	Mon 10/06/03		<b>L</b>								
3		Technology Research and analysis	457 days	Fri 10/31/03	Mon 08/01/05				L						
4		RFP	430 days	Mon 10/03/05	Fri 05/25/07				<u> </u>		1				
5		Source Selection	430 days	Mon 10/03/05	Fri 05/25/07				<u>.</u>		1				
6		RDT&E	400 days	Mon 10/03/05	Fri 04/13/07				<u>.</u>	N.2					
7		Evaluation	30 days	Mon 10/03/05	Fri 11/11/05				<u>ъ</u>						
8		Safety Certification	180 days	Mon 11/14/05	Fri 07/21/06					վ					
9		Shoot-off	90 days	Mon 07/24/06	Fri 11/24/06										
0		Select Best Value	10 days	Mon 11/27/06	Fri 12/08/06										
1		D/T & O/T	90 days	Mon 12/11/06	Fri 04/13/07										
12		Modifications	30 days	Mon 04/16/07	Fri 05/25/07										
13		LRIP	480 days	Mon 05/28/07	Fri 03/27/09					<b>→</b>					
14		Evaluation	90 days	Mon 05/28/07	Fri 09/28/07						<u></u>				
5		Modifications	90 days	Mon 10/01/07	Fri 02/01/08										
16		RFP	300 days	Mon 02/04/08	Fri 03/27/09										
17		Evaluations	30 days	Mon 02/04/08	Fri 03/14/08						<u></u>				
8		Manufacturing	270 days	Mon 03/17/08	Fri 03/27/09										
9		Fielding	610 days	Fri 03/27/09	Mon 08/01/11							<b>↓</b>			15, 2
20		IOC Company Mortars	0 days	Fri 03/27/09	Fri 03/27/09	1						0	3/27		_
21	<b>III</b>	FOC Company Mortars	0 days	Mon 08/01/11	Mon 08/01/11	1									

Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(APPN, BLI #, NOMEN)										
(U) RDT&E,N C1901 Co and Bn Mortars	0.000	0.000	1.450	1.350	1.000	1.000	1.000	0.500	Cont	Cont
(U) PMC, BLI# 222000 Co and Bn Mortars	0.134	3.105	1.500	0.000	4.193	3.187	3.209	3.207	Cont	Cont

R-1 SHOPPING LIST - Item No. 186

Exhibit R APPROPRIATION/BUDGET ACTIVITY PROGRAM EL	PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT								ebruary 2005		
RDT&E, N /BA 7 Operational Sys Dev 0206623M Ma	arine Corps Gro	ound Comba	at/Supportii	ng Arms Sys	stems	C1901 Marine Corps Ground Weaponry PIP					
Company and Battalion Mortars	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
re-MS Activities	2Q										
Business Case Analysis	2Q										
echnology Research and Analysis		1Q									
RFP				1Q							
Source Selection				1Q							
RDT&E				1Q							
Source Selection RDT&E Evaluation				1Q							
Safety Certification				1Q							
Shoot-Off				4Q							
Select Best Value					1Q						
DT & OT					1Q						
Modifications					3Q						
RIP					3Q						
RIP Evaluation					3Q						
-RIP Modifications						1Q					
RFP						2Q					
RIP RFP Evaluations						2Q					
RIP RFP Modifications						2Q					
Fielding							2Q				
OC Company Mortars							2Q				
OC Company Mortars									4Q		

EXHIBIT	EXHIBIT R-2a, RDT&E Project Justification								
							Februar	y 2005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NU	MBER AND NA	AME					
RDT&E, N /BA-7 Operational Sys Dev	0206623M M	arine Corps	<b>Ground Comb</b>	oat Arms Sys	tems	C2086 Marin	e Enhanceme	ent Program	(MEP)
COST (\$ in Millions)	•	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY10	FY11
Project Cost		2.194	2.629	2.711	2.571	2.671	2.708	2.766	2.818
RDT&E Articles Qty									

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

(U) Marine Enhancement Program (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 item/commercial off 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.

### (U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07						
Accomplishment/Effort Subtotal Cost	0.989	0.858	0.840	0.854						
RDT&E Articles Qty										
Explored NDI againment that would improve the combat affectiveness	Evaluated VIDI conjument that would improve the combat effectiveness and aphenes sofety and survivability of the Individual Marins									

Explored NDI equipment that would improve the combat effectiveness and enhance safety and survivability of the Individual Marine.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	0.735	0.894	0.879	0.892
RDT&E Articles Qty				

Explored clothing and individual equipment that would improve the combat effectiveness and enhance safety and survivability of the individual Marine.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	0.470	0.877	0.992	0.825
RDT&E Articles Qty				

Explored ground weapons, communications and command and control equipment that would improve the combat effectiveness and enhance safety and survivability of the individual Marine.

(U) Total \$ 2.194 2.629 2.711 2.571

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 21 of 53)

EXHIBIT R	-2a, RDT&E Projec	t Justification				DATE:	February 2	005	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM EL 0206623M Ma			ms	C2086 Marine Enhancement Program (MEP)				
(U) Project Change Summary:	FY2004	FY2005	FY2006	FY2007					
(U) FY 2005 President's Budget:	2.603	2.655	2.608	2.651					
<ul> <li>(U) Adjustments from the President's Budget:</li> <li>(U) Congressional/OSD Program Reductions</li> <li>(U) Congressional Rescissions</li> <li>(U) Congressional Increases</li> <li>(U) Reprogrammings</li> <li>(U) SBIR/STTR Transfer</li> </ul>	-0.396 -0.013								
(U) Minor Affordability Adjustment		-0.026	0.103	-0.08					
(U) FY 2006 President's Budget:	2.194	2.629	2.711	2.571					
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above (U) Schedule: Not Applicable. (U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY Line Item No. & Name FY 2		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011 To	Compl	Total Cos
	.620 4.009 .000 0.000	0.000 5.357	0.000 5.383	0.000 5.641	0.000 9.932	0.000 5.975	0.000 6.089	0.000 Cont	15.62 Cor
(U) Related RDT&E:									
(U) D. ACQUISITION STRATEGY: NDI/COTS									
		R-1 SHOPPIN	CLIST Hom	No. 196		Exhibit R-	2a, RDTE,N Pr	oject Jus	tification

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 22 of 53)

E	EXHIBIT R-2a, RC	DT&E Project Ju	stification			DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY			ENT NUMBER AND N			
RDT&E, N /BA-7 Operational Sys Dev	02	206623M Marine	Corps Ground Com	C2086 Marine Enhancement Program (MEP)		
(U) E. MAJOR PERFORMERS:						
<u>Performer</u>	<u>Effort</u>		<u>FY</u>	Award Date	(\$000) Amt	
RDECOM, Natick MA	Product Develo	pment	2004	Dec-03	164	
RDECOM, Natick MA	DT&E		2004	Dec-03	348	
Various	Product Develo	pment	2004	Various	240	
Various	DT&E		2004	Dec-03	881	
Operating Forces	OT&E		2004	Nov-03	300	
RDECOM, Natick MA	Product Develo	pment	2005	Dec-04	176	
RDECOM, Natick MA	DT&E		2005	Dec-04	373	
TBD	Product Develo	pment	2005	Various	257	
TBD	DT&E		2005	Various	946	
Operating Forces	OT&E		2005	Mar-05	322	
RDECOM, Natick MA	Product Develo	pment	2006	Dec-05	173	
RDECOM, Natick MA	DT&E		2006	Dec-05	367	
TBD	Product Develo	pment	2006	Various	253	
TBD	DT&E		2006	Various	929	
Operating Forces	OT&E		2006	Mar-06	316	
RDECOM, Natick MA	Product Develo	pment	2007	Dec-06	176	
RDECOM, Natick MA	DT&E		2007	Dec-06	373	
TBD	Product Develo	pment	2007	Various	257	
TBD	DT&E		2007	Various	944	
Operating Forces	OT&E		2007	Mar-07	321	

RDECOM (Research Development and Engineering Command) formerly known as SBCCOM (Soldier Biological and Chemical Command)

					DATE:										
Exhibit R-3 Cost Analysis										Februar	v 2005				
APPROPRIATION/BUDGET	ACTIVITY		PROGRAM ELE	MENT	I	PROJEC	CT NUM	BER AN			<u> </u>				
			Corps Ground	Combat											
RDT&E, N /BA 7 Operationa	al Sys Dev		Arms Systems			C2086 N	/larine E	Enhance	d Prog	ram (ME	P)				
Cost Categories	Contract	Performing		Total		FY 04		FY 05		FY 06		FY 07			Target
-	Method	Activity &		PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Comp	Cost	Contract
Product Development	Various	Various		5.508	0.140	Various	0.257	Various	0.306	Various	0.257	Various	Cont	Cont	
Product Development	MIPR	RDECOM, N	latick, Mass	3.764	0.164	1Q04	0.176	1Q05	0.173	1Q06	0.176	1Q07	Cont	Cont	
Product Development	WR	NFEC, Pt Hu	ueneme, CA	1.102	0.048	3Q04	0.052	2Q05	0.051	2Q06	0.051	2Q07	Cont	Cont	
Product Development	WR	NSWC, Crar	ne, IN	1.454	0.064	1Q04	0.069	1Q05	0.067	1Q06	0.069	1Q07	Cont	Cont	
Subtotal Product Dev				11.828	0.416		0.554		0.597		0.553		Cont	Cont	
Remarks:	1	1		1 1.020	0.110	ļ	0.004	<u>I</u>	0.007	1	0.000	<u> </u>		00.10	
Cost Categories	Contract	Performing		Total		FY 04		FY 05		FY 06		FY 07			Target
out categories	Method	Activity &		PY s		Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location		Cost	Cost	Date		Date	Cost	Date	Cost	Date	Complet		Contract
Operational Test & Eval	WR		/, CamLej, NC	6.997	0.300	1Q04	0.322	2Q05	0.316		0.321	2Q07	Cont		
Subtotal Support				6.997	0.300		0.322		0.316		0.321		Cont	Cont	
Remarks:				0.991	0.300		0.322		0.510		0.321		Cont	Cont	
Cost Categories	Contract	Performing		Total		FY 04		FY 05		FY 06		FY 07			Target
out categories	Method	Activity &		PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location		Cost		Date		Date	Cost	Date	Cost	Date	Complet		Contract
Developmental Test & Eval	Various	Various		13.221	0.797	Various	0.920		0.979	Various					
Developmental Test & Eval	MIPR	RDECOM, N	latick, Mass	8.987	0.348	1Q04	0.373	1Q05	0.367	1Q06	0.373	1Q07	Cont	Cont	
Developmental Test & Eval	WR	NFEC, Pt Hu	ueneme, CA	3.341	0.102	3Q04	0.109	2Q05	0.108	2Q06	0.109		Cont	Cont	
Developmental Test & Eval	WR	NSWC, Crar		4.122	0.136	1Q04	0.146	1Q05	0.143	1Q06	0.146	1Q07	Cont	Cont	
Subtotal T&E				29.671	1.383		1.548		1.597		1.492		Cont	Cont	
Remarks:	- L	l						I.		II.		· L			
Cost Categories	Contract	Performing		Total		FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &		PY s	FY 04	Award		Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location		Cost		Date		Date	Cost	Date	Cost	Date	Complet		Contract
Program Mgmt/Tech Spt	FFP	Various		0.000		1Q04	0.205	1Q05	0.201	1Q06	0.205		Cont	Cont	
Subtotal Management				0.000	0.095		0.205		0.201		0.205		Cont	Cont	
Remarks:															
Total Cost				48.496	2.194		2.629		2.711		2.571		Cont	Cont	
	ı					ı	_	ı		ı	1			1 1	

		UN	ICLASS	IFIED						
EXHIBIT R	2-2a, RDT&E	Project Justi	ification				DATE:	Febr	uary 2005	•
	PROGRAM I 0206623M I Combat/Sup	Marine Corps	s Ground		PROJECT N C2503 FAMI SERVICES			MENT SUPP	ORT AND	-
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	•
Project Cost		3.401	3.923	7.397	9.379	11.472	13.110	10.484	10.637	•
RDT&E Articles Qty										

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

The Family of Combat Equipment Support and Services provides research, development, test and evaluation on low cost items with emphasis on non-developmental/commercially available items. Much of the RDT&E is conducted in coordination/concert with other services and joint organizations, and in consideration of RDT&E efforts being pursued by the other services. Items approved for procurement will transition into Procurement Marine Corps and Operations and Maintenance Marine Corps procurement lines for Individual Combat Equipment, Medical Equipment, and Shelters. The focus is to provide the state of the art combat equipment (e.g. lightweight helmet, sleeping bags, load bearing systems, etc.), medical equipment (e.g. Authorized Medical Allowance (AMAL)/Authorized Dental Allowance (ADAL), Enroute Care, Mobile Medical Monitors, etc.), and family of shelters (softwall, different frames and fabrics, etc.). The benefit will be reduced logistics, less weight, improved combat effectiveness, better echelon I and II care for Marines, improved individual and unit protection, tactical mobility, etc. The employment of state-of-the art equipment will ensure Marines are equipped with the best items that technology can offer.

#### (U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0.912	1.049	0.000	0.000
RDT&E Articles Qty				

Initial Issue: Exploration of new commercial technologies that can be inserted into current body armor, load bearing equipment, footwear and clothing systems to reduce weight, increase survivability, lethality and mobility. Both torso and head/neck ballistic studies will be conducted to assess blunt trauma/shock forces on the body and how ballistic materials/designs can afford the most protection while reducing weight. Modeling and simulation initiatives will baseline current equipment and enable configuration/compatibility management of new equipment.

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0	0.000	2.668	4.400
RDT&E Articles Qty				

Family of Ballistic Protection (Formerly part of Initial Issue): Exploration of new commercial technologies that can be inserted into current body armor, to reduce weight, increase survivability, lethality and mobility. Both torso and head/neck ballistic studies will be conducted to assess blunt trauma/shock forces on the body and how ballistic materials/designs can afford the most protection while reducing weight. Modeling and simulation initiatives will baseline current equipment and enable configuration/compatibility management of new equipment.

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost	0	0.000	0.228	0.238
RDT&E Articles Qty				

Family of Improved Loadbearing Equipment (Formerly part of Initial Issue): This program supports the Marine Corps requirements for a replacement load bearing system and to provide funding to support continual system improvement throughout the life-cycle of the equipment.

		UNCLASS	SIFIED		
EXHIBIT	R-2a, RDT&E Project	Justification		DATE:	Echruory 2005
APPROPRIATION/BUDGET ACTIVITY  RDT&E, N /BA-7 Operational Sys Development	PROGRAM ELEMEN 0206623M Marine C Combat/Supporting	orps Ground		ECT NUMBER AND NAME B <b>Family of Combat Eq</b> u <b>ICES</b>	February 2005  JIPMENT SUPPORT AND
COST (\$ in Millions)	1	FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0	0.000	0.087	0.086
RDT&E Articles Qty			0.000	0.007	0.000
Family of General Property and Support Equipm operational capabilities and enhance unit morale. In significantly improved field equipment to Marines.					
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0	0.000	0.970	1.204
facilitate MAGTF operations in mountainous and co- dismounted infantry while maintaining or improving Element (CSSE), and the Air Combat Element (ACE alpine ice equipment for which we train Marines yet make it possible to continuously update the capabilit COST (\$ in Millions) Accomplishment/Effort Subtotal Cost RDT&E Articles Qty Family of Combat Field Feeding Systems (Forma	system performance. Mob E) will also be met. This pro have no assets to perform a y provided by MCWCEP.  Ily part of Initial Issue):	oility, survivability ogram will substar these missions wit  FY 2004  0  Improvements on	and sustainability requatially improve current hin the operating force  FY 2005 0.000  current technology for	rirements for the Command Elen inventory items and add new caps. Rapid technological advances  FY 2006  0.400  heating individual rations is bein	nent (CE), Combat Service Support pabilities such as steep earth and in the outdoor commercial market  FY 2007  0.305  ag explored to test individual ration
heater concepts and equipment. Although some prog- maintenance intensive M59 ranges utilizing M2 burn unsafe and hazardous components (specifically the M Maneuver from the Sea (OMFTS) and does not facil immersion water heaters, fueled by gasoline (MOGA COST (\$ in Millions) Accomplishment/Effort Subtotal Cost	ners setup within tents. The M2 burners), and does not c itate maneuverable warfare AS).	e current Tray Ratic	on Heater System has gle fuel concept. Also,	a large footprint, lacks a quick di this current system is not compa	isplacement capability, includes atible with tenets of Operational
RDT&E Articles Qty  Family of Field Medical Equipment: Development size for expeditionary maneuver warfare, and to enhance the state of				and ADALs) to insert new tech	nology, to reduce weight and cube
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007
Accomplishment/Effort Subtotal Cost		0.718	0.533	0.800	0.000
RDT&E Articles Qty					
<b>Family of Field Medical Equipment:</b> Testing of Co of an existing USAF system) to evaluate functionality		•		• •	Care System (based on components

		UNO	CLASSIF	IED							
EXHIBIT	R-2a, RDT&E Pr	oject Justific	cation			DATE:	February 2005				
APPROPRIATION/BUDGET ACTIVITY  RDT&E, N /BA-7 Operational Sys Development	PROGRAM EL 0206623M Ma Combat/Supp	rine Corps (	round		PROJECT NUMBER AND NAME  C2503 FAMILY OF COMBAT EQUIPMENT SUPPORT AND  SERVICES						
COST (\$ in Millions)		FY 200	04	FY 2	005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.600		0.5	78	0.800	0.800				
RDT&E Articles Qty											
<b>Family of Field Medical Equipment:</b> Testing of Coextraction and transport as required for the Casualty			elopmental (Co	OTS/NDI) m	edical equipn	nent items to evaluate their fur	ctionality for casualty rescue,				
COST (\$ in Millions)		FY 200	04	FY 2	005	FY 2006	FY 2007				
Accomplishment/Effort Subtotal Cost		0.476		0.43		0.435	0.000				
RDT&E Articles Qty											
Family of Field Medical Equipment: Minimization	n of the Forward Re						EV 2007				
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost		FY 200 <b>0.02</b> 1		FY 2 <b>0.4</b> 9		FY 2006 <b>0.073</b>	FY 2007 <b>0.073</b>				
RDT&E Articles Qty		0.02	'	0.4	30	0.073	0.073				
engineering to increase capability, reduce weight, cos (U) Total \$ 0.000	st and cube of soft v	wall shelters. 1 <b>3.40</b> 1	-	st new techno	-	rdination with the US. Army t	or insertion into the shelter.  9.379				
(U) PROJECT CHANGE SUMMARY											
	FY2004	FY2005	FY2006	FY2007							
(U) FY 2005 President's Budget: (U) Adjustments from the President's Budget: (U) Congressional/OSD Program Reductions (U) Congressional Rescissions (U) Congressional Increases	3.699	3.959	7.204	7.509							
(U) Reprogrammings (U) SBIR/STTR Transfer	-0.038			1.938							
(U) Minor Affordability Adjustment	-0.260	-0.036	0.193	-0.068							
(U) FY 2006 President's Budget: CHANGE SUMMARY EXPLANATION:	3.401	3.923	7.397	9.379							
<ul><li>(U) Funding: Change in funding in FY07</li><li>(U) Schedule: Not Applicable.</li><li>(U) Technical: Not Applicable.</li></ul>	represents reprio	oritizing of effo	orts within the	e USMC.							

	UNCLASSIFIED		
EXHIBIT	R-2a, RDT&E Project Justification		DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER ANI	D NAME
	0206623M Marine Corps Ground	C2503 FAMILY OF COM	MBAT EQUIPMENT SUPPORT AND
RDT&E, N /BA-7 Operational Sys Development	Combat/Supporting Arms Systems	SERVICES	

### (U) C. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) PMC Line (BLI#652200) Field Med	7.072	11.333	2.459	3.214	3.226	3.307	3.430	3.496	Cont	Cont
Equip										
(U) PMC Line (BLI#661300) Combat	0.000	0.000	5.405	5.132	4.088	3.737	3.802	3.653	Cont	Cont
Field Feeding System										

(U) Related RDT&E: Not Applicable.

### (U) D. ACQUISITION STRATEGY:

Family of Ballistic Protection Systems, Mountain Cold Weather, Improved Loadbearing Equipment, General Property and Supt Equipment and Combat Field Feeding Systems (formerly Initial Issue): Items utilize various acquisition strategies. These programs leverage heavily on current developments and technology in commercial industry. As a result, government's R&D phase is relatively short. Contracting is performed by either Marine Corps Systems Command Contracting Directorate or the U.S. Army Natick Research, Development & Engineering Center via Indefinite Delivery/Indefinite Quantity (ID/IQ) contracts. ID/IQ contracts are used to decrease the government risk, allow maximum contract flexibility and capitalize on the savings realized by utilizing Economic Order Quantities.

SHELTERS: The Shelter acquisition strategy is to modify non-developmental Items (NDI) to further meet the requirements of the Marine Corps, to support development of multi service items through inter-service agreements and to adopt Commercial-Off-the-Shelf (COTS)/NDI Marine Corps Specific items.

**FAMILY OF FIELD MEDICAL EQUIPMENT:** These programs leverage heavily on current development and technology in the commercial medical industry. Field Medical acquisition strategy is to modify non-developmental items (NDI) and adopt Commercial-Off-The-Shelf (COTS) items.

#### (U) E. MAJOR PERFORMERS:

Family of Ballistic Protection Systems, Mountain Cold Weather, Improved Loadbearing Equipment, General Property and Supt Equipment (formerly Initial Issue): U.S. Army Natick Research, Development and Engineering Center, Natick, Mass.

**SHELTERS:** TBD based on current technologies.

FAMILY OF FIELD MEDICAL EQUIPMENT: TBD based on current technologies.

(U) SCHEDULE PROFILE: Not Applicable.

E	xhibit R-3	Cost Analysis			DATE:				Februa	ry 2005				
APPROPRIATION/BUDGET A	CTIVITY	•	PROGR/	AM ELEN	MENT		PROJEC <sup>*</sup>	T NUMBER		•				
			0206623	M Marin	e Corps	Ground								
RDT&E, N /BA 7 Operational	Sys Deve	elopment				Systems	C2503 In	itial Issue -	Family o	f Combat	Equip Su	port & Ser	vices	
•	Contract	Performing	Total		FY 04	ľ	FY 05		FY 06		FY 07	ľ		Target
0	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
	MIPR	USASSCOM Natick, MA	3.494	0.154	1Q/04	0.167	1Q/05	1.081	1Q/06	1.495	1Q/07	Cont	Cont	
	FFP	Various (Test Articles)		0.345	2Q/04	0.403	2Q/05	1.548	2Q/06	1.859		Cont		
	WR	NMRC,WASH DC		0.771	2Q/04	0.624	2Q/05	0.416		0.908		Cont	Cont	
	MIPR	Vet Affairs, Wash DC		0.711	2Q/04 2Q/04	0.700	2Q/05 2Q/05	0.410	2Q/06	1.220		Cont	Cont	
Development/ rech insertion	IVIIFK	Vet Alialis, Wash DC		0.510	ZQ/04	0.700	ZQ/03	0.037	2Q/06	1.220	2Q/01	Cont	0.000	
				-				<b>-</b>				-		
Cultitatal Dua duat Davi			2 404	4 700		4.004		2.700		F 400		0	0.000	
Subtotal Product Dev			3.494	1.780		1.894		3.702		5.482		Cont	Cont	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or System/Iten		Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
` '	& Type	Location	Cost	Cost	Date	Cost	Date		Date	Cost	Date		Cost	Contract
			Cost	Cost	Date	0.100		Cost						
	WR	NRMC, WASH DC NHRC, SAN DIEGO,DC						0.100	1Q/06	0.100	1Q/07	Cont		
Program Support	WR	NHRC, SAN DIEGO,DC	0.000	0.000		0.225 <b>0.325</b>	1Q/05	0.225 <b>0.325</b>	1Q/06	0.100		0.000	0.450 <b>0.750</b>	
Subtotal Support		<u> </u>	0.000	0.000		0.325		0.325		0.100		0.000	0.750	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or System/Iten		Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date		Cost	Contract
	MIPR	USASSCOM Natick, MA	1.187	0.067	2Q/04	0.073	2Q/05	0.263	2Q/06	0.439		Cont	Cont	
	RCP	NRMC,WASH DC	0.000		2Q/04 2Q/04	0.578		0.800	2Q/06 2Q/06	0.439		Cont		
Field User Evaluations	WR	FMF	0.000		2Q/04 2Q/04	0.837	2Q/05 2Q/05	1.894	2Q/06 2Q/06	1.900		0.000		
Operational Test & Eval	WR	NSWC, INDIAN HD,MD	0.000	0.465	2Q/04 2Q/04	0.037	ZQ/03	1.094	ZQ/00	1.900	2Q/01	0.000	0.250	
	RCP	MCSC, Quantico VA	0.000		2Q/04 2Q/04	0.073	2Q/05						0.230	
Subtotal T&E	RUP	MCSC, Quantico VA	1.954	1.410	2Q/04	1.561	ZQ/05	2.957		3.139		0		0.64
			1.954	1.410		1.561		2.957		3.139		Cont	Cont	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or System/Iten		Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date		Date	Cost	Date	Cost to	Cost	Contract
	FFP/O	MCSC, Quantico VA	0.314	0.151	1Q/04	0.064	1Q/05	0.230		0.384		Complete		
<u> </u>	DTS*	MCSC, Quantico VA	0.314		10/04	0.064	10/03	0.230	10/00	0.364		Cont		
Travel	סוט	IVICOC, Quantico VA	0.143	0.000		0.079		0.183		0.274		Cont	Cont	
													0.000	-
Subtotal Management			0.457	0.211		0.143		0.413		0.658		Cont	Cont	
			0.437	0.211		0.143		0.413		0.038		Cont	Cont	
Remarks:	Obl:	a throughout the energy (* )												
ı"D⊥S (Detense Travel System)	) Obligate	s throughout the execution												
Total Cost			5.905	3.401		3.923		7.397		9.379		Cont	Cont	

	UN	ICLASSIF	IED								
EXHIBIT R-2a, RDT&E	E Project Justification		DATE:								
			February 2005								
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	R AND NAME	•								
RDT&E, N /BA-7 Operational Sys Development	26623M Marine Corps Ground		Arms	C2928 HIGH M			T SYSTEM	(HIMARS)			
								(			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY10	FY11			
Project Cost	6.266	2.996	4.145	6.150	2.374	0.489	0.000	0.000			
RDT&E Articles Qty											
(U) A. MISSION DESCRIPTION AND BUDGET ITE	EM JUSTIFICATION:										
an indirect fire system that is responsive, maneuvera  (U) B. ACCOMPLISHMENTS/PLANNED PROGRA	AM:						_				
COST (\$ in Millions)	FY 2			2005	FY			′07			
Accomplishment/Effort Subtotal Cost	1.1	24	0.9	900	2.9	57	3.4	104			
RDT&E Articles Qty				D. D. C.							
Primary and Ancillary Hardware Development and S	Systems Engineering Support, includes N	avy, Marine Corp	s, Army and cor	itractor R&D effor	ts.						
COST (\$ in Millions)	FY 2	2004	FY:	2005	FY	06	FY	′07			
Accomplishment/Effort Subtotal Cost	1.4			250	0.0			50			
RDT&E Articles Qty											
Develop Support Equipment, Army program office s	support, contractor provided logistics sup	port									
COST (\$ in Millions)	FY 2	2004	FY:	2005	FY	06	FY	′07			
Accomplishment/Effort Subtotal Cost	1.5	93	0.6	630	0.7	13	2.0	30			
RDT&E Articles Qty											
Support Test and Evaluation Program with Army. S	Support Test and Evaluation Program for	Marine Corps Pri	nciple End Items	3.							
COST (\$ in Millions)	FY 2	2004	FY 2	2005	FY	06	FY	′07			
Accomplishment/Effort Subtotal Cost	2.0	79	1.2	216	0.4	75	0.5	666			
	1	· · · · · · · · · · · · · · · · · · ·									

Program Management at Quantico, USMC Liason Office at Army Progam, USMC Test Unit at Ft Sill, and contractor support.

RDT&E Articles Qty

(U) Total \$ 6.266 2.996 4.145 6.150

EXHIBIT R-2a, RDT&E	Project Justification		DA	TE:	
					February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER	AND NAME		PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Development	26623M Marine Co	orps Ground C	ombat/Supt Ar	ms	C2928 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)
PROJECT CHANGE SUMMARY					
	FY2004	FY2005	FY2006	FY07	,
(U) FY 2005 President's Budget:	6.860	3.026	0.016	0.000	
(U) Adjustments from the President's Budget:					
(U) Congressional Program Reductions					
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) POM 06 Core Adjustment			4.04	4.022	
(U) Reprogrammings	-0.494		-0.049	2.344	
(U) SBIR/STTR Transfer	-0.100				
(U) Minor Affordability Adjustment		-0.030	0.138	-0.216	
(U) FY 2006 President's Budget:	6.266	2.996	4.145	6.150	

#### CHANGE SUMMARY EXPLANATION:

(U) Funding: Change in funding in FY06/07 represents reprioritizing of efforts within the USMC.

(U) Schedule: Not Applicable.(U) Technical: Not Applicable.

#### (U) C. OTHER PROGRAM FUNDING SUMMARY:

(0) 01 0 111211 110 0111 1111 01121110 0011111										
<u>Line Item No. &amp; Name</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(U) PMC, (BLI 205001), EIFGSWS (HIMARS)	17.183	16.277	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.460
(U) PMC, (BLI 304001), HIMARS ROCKETS	0.000	1.320	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont
(U) PMC, (BLI 221200), HIMARS	0.000	0.000	176.795	212.972	61.677	95.690	85.272	75.294	Cont	Cont

(U) Related RDT&E: Not Applicable.

#### (U) D. ACQUISITION STRATEGY:

USMC HIMARS is procuring the Army rocket launcher, the current / future Multiple Launch Rocket System Family of Munitions (MFOM) and developing an Medium Tactical Vehicle Replacement (MTVR)-based Resupply System (truck(s) with associated trailer(s)). The Marine Corps launcher and ammo requirements closely match U.S. Army requirements. The US Army HIMARS program received increased funding so that it is now an ACAT IC level program. Marine Corps resupply system requirements are unique. Accordingly, the Marine Corps is an integrator and must ensure the required warfighting capability is fielded to the Marine Corps operating forces. The USMC has aligned funds to reflect an emphasis on not only hardware development, but also the integration of these principle end items while providing associated evaluation and oversight. Additionally, the Marine Corps program is establishing the training and support methodologies that will result in associated skill sets required within the Marine Corps. The Marine Corps strategy is incorporating Evolutionary Acquisition and capability upgrades to both the systems and rocket munitions. These improvements are in-line with the US Army's acquisition strategy.

EXHIBIT R-2a, RDT&E F	Project Justification	DATE:	
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAM		PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Development	26623M Marine Corps Ground Combat/Su	pt Arms	C2928 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)
(U) E. MAJOR PERFORMERS:			
FY-04-07Lockheed Martin Missile, Dallas, TX. Mod	ifications to Launcher, GMLRS Development		
FY-04-07 Lockheed Martin Missile, Dallas, TX Syst	ems Engineering Support for Development a	nd testing	
FY-04-Lockheed Martin Missile, Dallas, TX Contrac	tor Logisitics Support, Contract Option		
FY-04-Oshkosh Trucking Corporation, Oshkosh, W	/I Upgrade to RSS Production Representativ	e articles and	Field Service Support

Evhibit D.2 Coot Applyoic				DATE: February 2005										
Exhibit R-3 Cost Analysis APPROPRIATION/BUDGET AC	TIVITY	PROGRAM ELEMENT		1	PROJEC:	T NUMBE	R AND N		soruary 2	CUU				
7.1 1 1.01 1.17 1.10 1.4 DODGET 7.0		0206623M Marine Corps Gr	ound Comba	/Cunt	I ROOLO	THOMBE	117111111111111111111111111111111111111							
RDT&E, N /BA-7 Operational S	ve Develonment		ouriu Comba	C2928 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)										
Cost Categories	Contract	Performing	Total	1	FY 04	T WOOD	FY 05	ILLLIN	FY 06	1 3131	FY 07	113)		Target
Cost Categories	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Primary Hardware Dev	SS/CPAF	Lockheed Martin, Dallas, TX	11.054	0.162	07/04	0.750	04/05	1.313	04/06	0.085	04/07	0.500	13.864	13.86
Primary Hardware Dev	SS/CPAF	Oshkosh Truck, Oshkosh,WI	2.864		07/04	-						0.000		
Ancillary Hardware Dev	TBD	TBD	0.000		0.,0.			0.850	12/05	2.484	12/06	0.000	3.334	
Systems Engineering	WR	NSWC-Carderock,MD	0.090		10/03						1, 0.0	0.000	0.157	0.15
Systems Engineering	WR	NSWC-Dahlgren, VA	0.582	0.462	10/03	0.150	10/04	0.350	10/05	0.350	10/06	0.470	2.364	2.36
Systems Engineering	WR	NSWC-Earle, NJ	0.250		01/04	-		0.354	10/05	0.275	10/06	0.000		1.07
Systems Engineering	FFP	John J. McMullen, Pittsb,PA	0.166		03/04							0.000	0.181	0.18
Systems Engineering	CPAF	Lockheed Martin, Dallas, TX	0.270		06/04			0.090	12/05	0.210	12/06	0.056	0.676	0.67
Systems Engineering	WR	NAVAIR, Point Mugu CA	0.000		10/03			0.000	12/00	0.2.0	12,00	0.000	0.0.0	0.01
Subtotal Product Dev		and the same of th	15.276			0.900		2.957		3,404		1.026	24.687	
Remarks:	l.	1	10.270	1.12	'1	0.000		2.001	ı	0.101	1	1.020	24.007	<u> </u>
Cost Categories	Contract	Performing	Total		FY 04		FY 05	I	FY 06		FY 07		1	Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
ILS Program Support	MIPR	US Army-MSL,Huntsville, AL	1.090	0.400	10/03	0.150	10/04					0.000	1.640	1.64
Integ Logistics Support	WR	NSWCIHD, Earle NJ	0.000							0.150	12/06	0.000	0.150	0.15
Integ Logistics Support	CPAF	Lockheed Martin, Dallas TX	2.392	0.990	06/04							0.000	3.382	3.38
Integ Logistics Support	WR	Logistics Base-Albany, GA	0.027	0.010	10/03							0.000		0.03
Integ Logistics Support	FFP	SAIC, McLean VA	0.000		02/04							0.000	0.048	0.04
Integ Logistics Support	WR	MARFORRES, New Orleans LA	0.000	0.022	10/03	0.100	10/04					0.000	0.122	0.12
												0.000		0.00
Subtotal Support			3.509	1.470	)	0.250		0.000		0.150		0.000	5.379	
Remarks:														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
· ·	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Dev Test & Eval	WR	NSWC-Dahlgren, VA	1.116	0.282	10/03			0.425	10/05	1.305	10/06	0.425	3.553	3.55
Dev Test & Eval	WR	Redstone Test Ctr,Huntsville,AL	0.213	0.045	01/04	0.100	12/04	0.120	12/05	0.410	12/06	0.070	0.958	0.95
Dev Test & Eval	WR	Aberdeen Proving Grounds, MD	0.853	0.650	03/04							0.000		1.50
Dev Test & Eval	WR	NSWC-Carderock, MD	0.015							0.050	10/06	0.000	0.065	0.06
Dev Test & Eval	MIPR	DAC, McAlester, OK	0.000							0.090	10/06	0.000		0.14
Dev Test & Eval	MIPR	Redstone Test Ctr,Huntsville,AL	0.000	0.203	08/04							0.200		
Operational Test & Eval	WR	MCOTEA, Quantico, VA	0.316		04/04	0.530	12/04	0.168	12/05	0.175	12/06	0.150		1.48
Operational Test & Eval	MIPR	MARFORRES, New Orleans, LA	0.096		10/03							0.000		0.12
DT/OT Support	WR	OT Test Conduct, Ft. Sill, OK	0.229	0.183	10/03							0.000		0.41
													0.000	
Subtotal T&E Remarks:			2.838	1.593	3	0.630		0.713		2.030		0.845	8.649	
ivemarks.														
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
•	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete		Contract
Program Mngmnt	WR	MCSC, Quantico, VA	0.994		10/03	0.242	10/04	0.225	10/05	0.316	10/06	0.442		
Program Mngmnt	MIPR	US ARMY Huntsville, AL	1.042	0.200	10/03	0.150	10/04	ļ				0.000	1.392	1.39
Program Mngmnt	FFP	CEOSS, Quantico VA	2.327	1.579	10/04	0.824	10/04	0.250	10/05	0.250	10/06	0.550		5.78
Subtotal Management			4.363	2.079	9	1.216		0.475		0.566		0.992	9.691	
Remarks:														
Total Cost			25.986	6.266	3	2.996		4.145	l	6.150		2.863	48.406	l

OPRIATION/BUDGET ACTIVITY  E, N /BA-7 Operational Sys Dev	PROGRAM 0206623M		os Groun	d Combat/S	upt Arms		PROJECT NUMBER AND NAME  C2928 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)					
Fiscal Year	FY04	FYO!	5	FY06	FY	07	FY08	FY	′09	FY10	FY11	
Quarter	I II III IV	1 11 111	IV I	11 111 11	/ 1 11 1	II IV	I II III	V I II	III IV	I II III IV	I II III IV	
MS C/LRIP Decision	•											
US Army/USMC OT		-										
LRIP Delivery	•	•		•								
FRP			•									
FRP System Deliveries					•			•				
M30 FRP Munitions Delivers						•						
Interim Capability			•			•	<b>&gt;</b>					
IOC						•	•					
FOC								•				
USMC GMLRS Unitary DT, Army DT/OT			•					•				
GMLRS Unitary FRP								•				
Unitary FRP Munitions Deliveries										•		
HIMARS P3I			•							•		
am Funding Summary		FY 2004	FY 2005		FY 2007	FY 2008	<u>FY 2009</u>	FY 2010	FY 201	1 To Compl To	otal Cost	
RDT&E,N, 026623M, HIMARS	4 Fine O	6.266	2.996		6.150	2.374		0.000	0.00		22.420	
PMC 205001 Expeditionary Indirect Weapons System (EIFGSWS)(HIMARS	• •	17.183	16.277	0.000	0.000	0.000	0.000	0.000	0.00	0.000	33.460	
PMC 304001 HIMARS ROCKETS	-	0.000	1.320	0.000	0.000	0.000	0.000	0.000	0.00	0 Cont	Cont	
PMC 221200 High Mobility Artillery	Pocket Sve	0.000	0.000	176.795	212.972	61.677	7 95.690	85.272	75.29	4 Cont	Cont	

Exhibit R-4/4a Schedule Profile/Detail  PPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT PI					DATE: February 2005 PROJECT NUMBER AND NAME C2928 HIGH MOBILITY ARTILLERY ROCKET SYSTEM (HIMARS)				
HIMARS SCHEDULE DETAIL	FY 2004			FY 2007	FY 2008	FY 2009		FY 2011	(IIIIIAICO)
MC C/LRIP Decision	1Q		2000	2001	2000				
US Army/ USMC Operational Testing		-1Q							
LRIP Deliveries	3Q		2Q						
Interim Capability		4Q-			1Q				
USMC Full Rate Production (FRP) Decision			1Q						
USMC FRP Deliveries				1Q		2Q			
GMLRS (M30) Munitions Deliveries				3Q					
Initial Operational Capability					1Q				
Full Operational Capability						1Q			
GMLRS Unitary Munitions									
USMC DT, US Army DT/OT			1Q		4Q				
GMLRS Unitary FRP						1Q			
Unitary FRP Deliveries							2Q		
HIMARS Pre-Planned Product Improvements (P3I)									
Carrier Upgrades			2Q	4Q					
Comm Upgrades (Cordless VIS, JTRS)			2Q		2Q	2Q	4Q		
Armor Upgrades						2Q	4Q		

EXHIBIT	R-2a, RDT&E Project Justificatio	n				DATE:			
							Febr	uary 2005	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NU	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME					1E		
RDT&E, N /BA-7 Operational Sys Dev	0206623M Marine Corps	Ground C	ombat/Su	pt Arms	C3098 Fi	Fire Support Systems			
COST (\$ in Milliana)		EV 2004	EV 2005	EV 2006	EV 2007	EV 2009	FY 2009	EV2010	FY2011
COST (\$ in Millions)		F1 2004	F1 2005	F1 2006	F1 2007	F1 2006	F1 2009	F12010	FTZUII
Project Cost		10.050	12.079	11.645	7.680	7.413	8.679	7.550	7.248
RDT&E Articles Qty									

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

(U) This Project develops joint and Marine Corps unique improvements to artillery technology, USMC unique Amphibious Armor Systems (AAS), and international weapons developments. The AN/GVS-5 Laser Range Finder, Family of Artillery Munitions, Fire Support Mods, and the Mortar Ballistic Computer moved to this project from project C1901 within this Program Element.

#### (U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	0.279	0.275	0.281	0.288
RDT&E Articles Qty				

Family of Artillery Munitions (FAM): Support a production decision for the Multi Option Fuze Artillery (MOFA), and Portable Inductive Artillery Fuze Setter (PIAFS) to include: Weapons Systems Explosive Safety Review Board testing, program support, and travel. Actively monitor U.S. Army artillery ammunition development programs in order to leverage off of and influence Army developmental efforts.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	1.044	1.740	1.665	1.710
RDT&E Articles Qty				

Fire Support Mods: Joint participation in artillery and fire support improvement projects. Specific projects include phase-in/phase-out of M198 Howitzer / LW 155mm Howitzer and development of Global Positioning System-Selective Availability Anti-Spoofing Module (GPS-SAASM) capability and upgrade of Meterological (MET) processing computer for the Meteorological Measuring System (MMS) and develop Electronic Meteorological Theodolite (EMT) capability.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	0.168	1.120	0.744	0.359
RDT&E Articles Qty				

Fire Support Sustainment - Fielded Sys Readiness: Research operational and logistical deficiencies on fielded systems and equipment, such as M198 Howitzers, Position and Azimuth Determining Systems (PADS), and Modular Universal Laser Equipment (MULE) Laser Designators. Develop and field modifications to improve system safety, enhance operational efficiency, and reduce life cycle costs.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	1.562	1.176	0.713	0.308
RDT&E Articles Qty				

Mortar Ballistic Computer (MBC): Integration effort of Government-Furnished Equipment (GFE) software with a common hardware suite (CHS) platform. Prepare for and conduct combined Developmental Testing (DT) and Operational Testing (OT) to include Live Fire User Evaluation. Conduct Interim Progress Review (IPR). Prepare for Milestone C decision. Requirements review to determine evolution to future block upgrades.

EXHIBIT	R-2a, RDT&E Project Justificat	tion		DATE:	2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	II IMDED AND NAME	DDO IE	CT NUMBER AND NAM	ary 2005 ⊏
					<u> </u>
RDT&E, N /BA-7 Operational Sys Dev	0206623M Marine Corp			Fire Support Systems	E\/0007
COST (\$ in Millions)		FY 2004	FY 2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty		1.1	0.000	0.000	0.000
AN/GVS-5 Replacement - Azimuth Eye-safe R Evaluation (OT&E) on the AEROS system. The integration of a P3I Enhanced Target Acquisition	funding for the OT&E effort encomp	passes the test itself and			
COST (\$ in Millions)		FY 2004	FY 2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost		0.000	0.357	0.181	0.000
RDT&E Articles Qty					
the P3I effort will be the integration of ETALS in research and development effort is being perform  COST (\$ in Millions)				FY2006  0.000	FY2007 0.000
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty		3.292	0.000	0.000	0.000
COST (\$ in Millions)  Accomplishment/Effort Subtotal Cost  RDT&E Articles Qty  Expeditionary Fire Support System (EFSS): I items. EFSS will enter the System Development production may be exercised at this time.	0 1 1	*		*	*
COST (\$ in Millions)		FY 2004	FY 2005	FY2006	FY2007
Accomplishment/Effort Subtotal Cost		0.000	0.000	1.000	1.000
RDT&E Articles Qty		0.000	0.000	1.000	1.000
Meteorological Measuring Sets (MMS Profiler from the battlefield, enhances artillery accuracy, with the Meteorological/Oceanographic department the operational requirements of the war fighter.  COST (\$ in Millions)	expands the coverage of meteorologic	cal information, and sup	ports future firing sys	tems. This is a collaborative	e effort being conducted
Accomplishment/Effort Subtotal Cost		2.605	0.275	0.011	0.000
RDT&E Articles Qty		2.003	0.213	0.011	0.000
Improved Position Azimuth Determination Sy system integration. Development effort supports		ontractor design effort, a	and the procurement of	f systems for developmenta	l/operational testing and
(U) Total \$		10.050	12.079	11.645	7.680

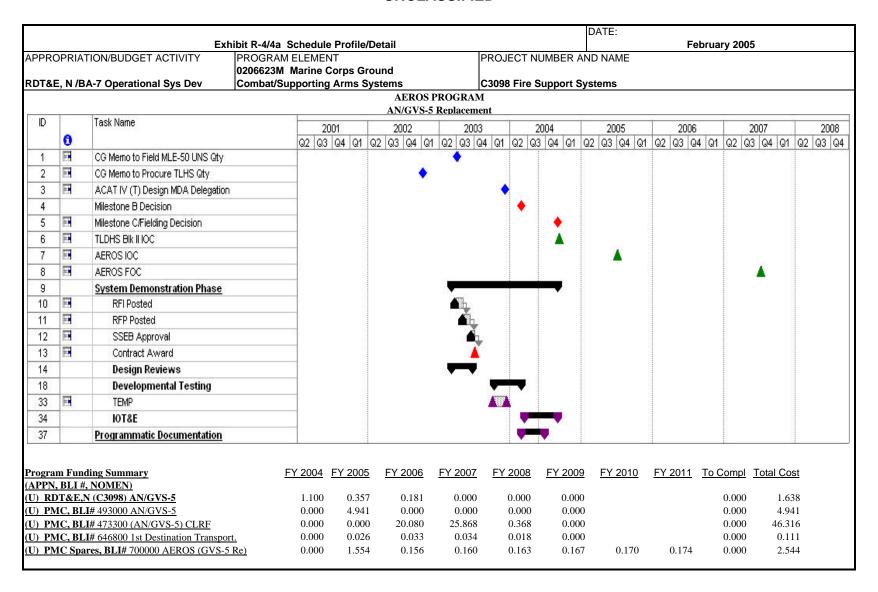
AM ELEM	e Corps (	MBER AND FY 2005 12.201 -0.122 12.079	mbat/Sup FY 2006	FY 2007 14.008 -6.049 -0.022	PROJECT	DATE:  NUMBER  Support	AND NAME	ry 2005	
	e Corps ( <u>FY 2004</u> 11.099 -0.230 -0.819	FY 2005 12.201	mbat/Sup FY 2006 10.199 1.396 0.284 -0.234	-6.049 -0.022			AND NAME		
M Marin	FY 2004 11.099 -0.230 -0.819	FY 2005 12.201	1.396 0.284	-6.049 -0.022	C3098 Fir	e Support	Systems		
	FY 2004 11.099 -0.230 -0.819	FY 2005 12.201	1.396 0.284	-6.049 -0.022					
	-0.230 -0.819	-0.122	1.396 0.284 -0.234	-6.049 -0.022 -0.257					
	-0.819		0.284	-0.022 -0.257					
	-0.819		0.284	-0.022 -0.257					
	-0.819		0.284	-0.022 -0.257					
	-0.819		0.284	-0.022 -0.257					
	-0.819		0.284	-0.022 -0.257					
	-0.819		-0.234	-0.257					
	-0.819								
	10.050	12.079	11.645	7 680					
				7.000					
FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011 To	Compl	Total Cost
									4.800
									11.745
									5.452
0.000	0.000	2.601	4.277	4.415		4.648	4.769	Cont	Con
0.000	0.000	20.080	25.868	0.368		0.000	0.000	0.000	46.31
0.000	0.000	0.411	0.201	0.000	0.000	0.000	0.000	0.000	0.612
0.000	2.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.394
1.599	2.446	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.045
0.000	0.000	5.965	7.337	5.851	9.755	10.150	0.000	0.000	39.058
0.000	4.941	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.94
0.000	0.026	0.033	0.034	0.018	0.000	0.000	0.000	0.000	0.11
0.000	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.060
0.000	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.143
0.000	0.000	1.252	0.780	0.000	0.000	0.000	0.000	0.000	2.032
0.000	0.000	0.200	0.432	0.864	0.000	0.000	0.000	0.000	1.496
cil	0.000 0.000 0.000 0.000 0.000 0.000 1.599 0.000 0.000 0.000 0.000 0.000 0.000	0.000	0.000 0.000 3.346 0.000 6.621 5.124 0.000 3.554 1.898 0.000 0.000 2.601 0.000 0.000 0.411 0.000 2.394 0.000 1.599 2.446 0.000 0.000 0.000 5.965 0.000 4.941 0.000 0.000 0.026 0.033 0.000 0.000 0.060 0.000 0.143 0.000 0.000 0.000 1.252 0.000 0.000 0.200	0.000         0.000         3.346         1.460           0.000         6.621         5.124         0.000           0.000         3.554         1.898         0.000           0.000         0.000         2.601         4.277           0.000         0.000         20.080         25.868           0.000         0.000         0.411         0.201           0.000         2.394         0.000         0.000           1.599         2.446         0.000         0.000           0.000         0.000         5.965         7.337           0.000         4.941         0.000         0.000           0.000         0.026         0.033         0.034           0.000         0.000         0.060         0.000           0.000         0.143         0.000         0.000           0.000         0.000         1.252         0.780           0.000         0.000         0.200         0.432	0.000         0.000         3.346         1.460         0.000           0.000         6.621         5.124         0.000         0.000           0.000         3.554         1.898         0.000         0.000           0.000         0.000         2.601         4.277         4.415           0.000         0.000         20.080         25.868         0.368           0.000         0.000         0.411         0.201         0.000           0.000         2.394         0.000         0.000         0.000           1.599         2.446         0.000         0.000         0.000           0.000         4.941         0.000         0.000         0.000           0.000         4.941         0.000         0.000         0.000           0.000         0.000         0.060         0.000         0.000           0.000         0.143         0.000         0.000         0.000           0.000         0.000         1.252         0.780         0.000           0.000         0.000         0.200         0.432         0.864	0.000         0.000         3.346         1.460         0.000         0.000           0.000         6.621         5.124         0.000         0.000         0.000           0.000         3.554         1.898         0.000         0.000         0.000           0.000         0.000         2.601         4.277         4.415         4.542           0.000         0.000         20.080         25.868         0.368         0.000           0.000         0.000         0.411         0.201         0.000         0.000           0.000         2.394         0.000         0.000         0.000         0.000           1.599         2.446         0.000         0.000         0.000         0.000           0.000         0.000         5.965         7.337         5.851         9.755           0.000         4.941         0.000         0.000         0.000         0.000           0.000         0.026         0.033         0.034         0.018         0.000           0.000         0.000         0.000         0.000         0.000         0.000           0.000         0.143         0.000         0.000         0.000         0.000	0.000 6.621 5.124 0.000	0.000	0.000

								DATE:						
		Exhibit R-3 Cost Analysi	is								February	/ 2005		
APPROPRIATION/BUDGET A	ACTIVITY	PROGRAM ELEM 0206623M Marine	MENT	Fround		PROJE	CT NUMB	ER AND	NAME		-			
RDT&E, N /BA-7 Operational	Sys Dev	Combat/Supporti	ng Arms	Systems		C3098 F	Fire Supp	ort Syste	ems					
	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
I	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
PRODUCT DEVELOPMENT		SEE BELOW												
AN/GVS-5 Replacement	RCP	MKI Woodbridge, VA	0.000	0.361	1Q04							0.000	0.361	
EFSS	RCP	TBD	0.000	0.557		1.920	2Q05	1.700	1Q06	2.000	1Q07	Cont	Cont	
EFSS	VAR	TBD	0.000			0.781	2Q05	0.700	2Q06	0.500	2Q07	Cont	Cont	
Fire Spt Mods	MIPR	CECOM, Ft Monmouth NJ	0.403									0.000	0.403	
Fire Spt Mods	RCP	Smith Indus, Gd Rapids, MI		0.400	1Q04	0.802	1Q05	0.800	1Q06	0.700	TBD	Cont	Cont	
Fire Spt Mods - Fielded Sys														
Readiness	VAR	TBD	0.000	0.000		0.357	1Q05	0.400	TBD	0.359	TBD	Cont	Cont	
IPADS	VAR	VARIOUS		1.409	1Q04							0.000	1.409	
MBC	VAR	VARIOUS	0.000	0.315	2Q04	0.200		0.413	TBD			0.000	0.928	
MMS Profiler	MIPR	TBD	0.000					0.800	TBD	0.800	TBD		1.600	
													0.000	
Subtotal Product Dev			0.403	3.042		4.060		4.813		4.359		Cont	Cont	
Remarks:														

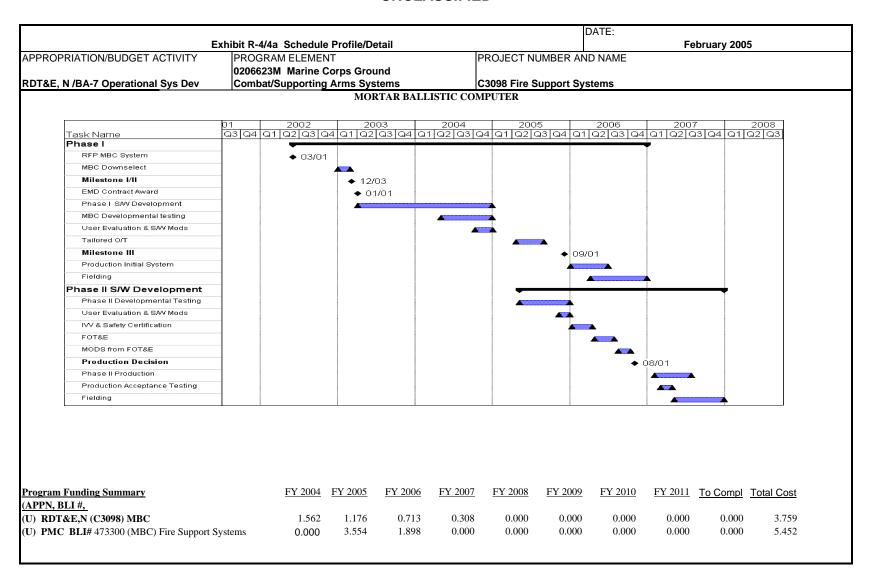
	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
PROGRAM SUPPORT		SEE BELOW												
AN/GVS-5 Replacement	WR	MCSC, Quantico, VA	0.000	0.244	2Q04							0.000	0.244	
AN/GVS-5 Replacement	RCP	CEOSS	0.000	0.295	1Q04	0.357	1Q05	0.181	1Q06			0.000	0.833	
AN/GVS-5 Replacement	MIPR	Marine Det, Ft Sill, OK		0.015	1Q04							0.000	0.015	
EFSS	RCP	CTQ, Quantico, Va	0.000	0.581	1Q04	1.342	1Q05	0.708	1Q06	0.343	1Q07	Cont	Cont	
EFSS	WR	NAWCD, Pax River, Md		0.412	1Q04	0.200	1Q05	0.200	1Q06	0.100	1Q07	Cont	Cont	
Fam Artillery Munitions	WR/RCP	BAEST, Stafford, VA		0.057	1Q04	0.058	1Q05	0.281	1Q06	0.288	1Q07	Cont	Cont	
Fire Spt Mods	WR/RCP	BAEST, Stafford, VA	1.046	0.300	1Q04	0.382	1Q05	0.450	1Q06	0.500	1Q07	Cont	Cont	
Fire Spt Mods - Fielded Sys														
Readiness	VAR	EG&G		0.118	1Q04	0.253	TBD	0.344	1Q06			Cont	Cont	
IPADS	VAR	VARIOUS		0.250	2Q04			0.011	TBD			0.000	0.261	
MBC	VAR	VARIOUS	0.000	0.500	1Q04	0.689	TBD	0.300	TBD	0.308	1Q07	0.000	1.797	
MMS Profiler	RCP	CEOSS	0.000					0.200	1Q06	0.200	1Q07	Cont	Cont	
													0.000	
Subtotal Support			1.046	2.772		3.281		2.675		1.739		Cont	Cont	

Remarks:

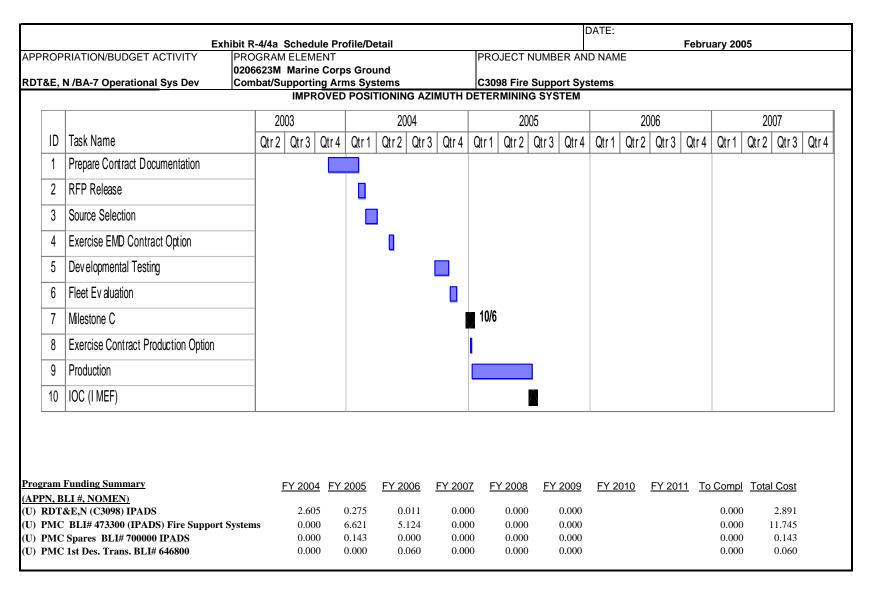
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		Exhibit R-3 Cost Analy	ysis								February	2005		
APPROPRIATION/BUDGET	ACTIVITY	PROGRAM ELE				PROJE	CT NUME	BER AND	NAME					
		0206623M Mar												
RDT&E, N /BA-7 Operational		Combat/Suppo	rting Arms	Systems		C3098 I	Fire Supp	ort Syste	ems					
	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
T&E		SEE BELOW												
AN/GVS-5 Replacement	WR	MCOTEA, Quantico, VA	0.000	0.185	2Q04							0.000	0.185	
EFSS	WR	NSWC, Indian Head, Md		0.180	2Q04	0.951	2Q05	1.592	2Q06	0.200	2Q07	Cont	Cont	
Fam Artillery Munitions	WR/RCP	NSWC, Crane, IN		0.222	2Q04	0.217	2Q05			T		Cont	Cont	
Fire Spt Mods	WR	MCOTEA, Quantico, VA	0.025			0.200	2Q05	0.200	1Q06	0.250	1Q07	Cont	Cont	
Fire Spt Mods - Fielded Sys														
Readiness	VAR	PICATINNY, NJ		0.000	2Q04	0.300	TBD					Cont	Cont	
IPADS	WR	VARIOUS		0.151						T		0.000		
MBC	WR	VARIOUS	0.000	0.497	2Q04	0.287	TBD					0.000		
MMS Profiler												Cont		
													0.000	
Subtotal T&E			0.025	1.235	·	1.955		1.792		0.450		Cont	Cont	
Remarks:	_			_	_	<del></del>	•	<del></del> -	<del></del>	<del></del>	<del></del>	<del></del> -	<del></del>	_
	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Cost Categories	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
MANAGEMENT	† ·	SEE BELOW			<b>†</b>							_		
EFSS	MPR	MCPD, Fallbrook, CA		0.536	2Q04	0.600	2Q05	0.700	2Q06	0.300	2Q07	Cont	Cont	
EFSS	WR	MCSC, Quantico, VA		1.026		1.342		1.450		0.572	1Q07	Cont		
Fire Spt Mods	WR	MCSC, Quantico, VA	0.582		_	0.356		0.215		0.260	2Q07	Cont		
Fire Spt Mods - Fielded Sys	1				<b>†</b>									
Readiness	RCP	BAEST, Stafford, VA		0.050	1Q04	0.210	1Q05					Cont	Cont	
IPADS	WR	MCSC, Quantico, VA		0.795		0.275						0.000		
MBC	WR	MCSC, Quantico VA	0.000	0.250	1Q04							0.000	0.250	
MMS Profiler	1				<u> </u>	İ		<u> </u>		i		Cont	Cont	
													0.000	
Subtotal Management			0.582	3.001		2.783		2.365		1.132		Cont	Cont	
Remarks:														
Total Cost	Т		2.056	10.050		12.079	1	11.645		7.680		Cont	Cont	
Total Cost			2.056	10.050		12.079		11.645		7.680		Cont	Cont	
Total Cost			2.056	10.050		12.079		11.645		7.680		Cont	Cont	



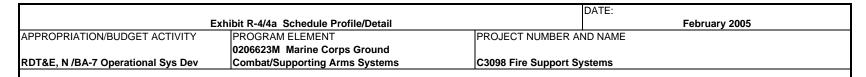
RIATION/BUDGET ACTIVITY PROGRAM ELEM 0206623M Marin I /BA-7 Operational Sys Dev Combat/Supporti	e Corps Gr			PROJECT I					
AEROS SCHEDULE DETAIL	FY 2003		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY2011
CG Memo to Fielding MLE-50 UNS	Q3								
CG Memo to Procure TLDHS AEROS Qty	Q1								
Program ACAT IV (T) Designation		Q1							
Milestone B		Q2							
Issue Draft Request for Proposal (RFP)	Q2								
Pre-Solicitation Conference	Q2								
Issue Final RFP	Q2								
Source Selection, Including User Evaluation	Q3								
Award Firm Fixed Price Contract with Productio Options	n Q3								
Developmental Testing	Q4 through	Q3							
Operational Testing (OT)		Q2							
Milestone C / Fielding Decision		Q4							
Exercise Production Option		Q4							
Production		Q4							
Initial Operational Capability (IOC)			Q4						
Full Operational Capability (FOC)					Q4				



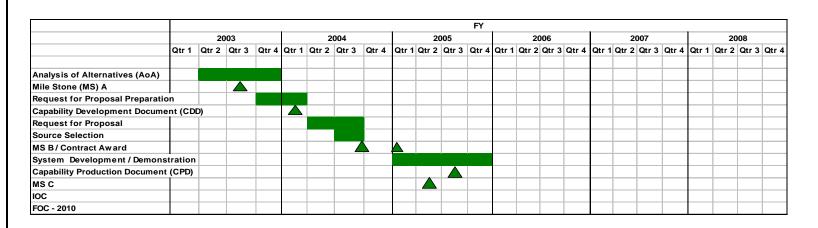
IATION/BUDGET ACTIVITY	Exhibit R-4/4a Scheo		Detail		IDDO IECT I	NUMBER AI	ND NAME	F	ebruary 200
IATION/BUDGET ACTIVITY	0206623M Marir		ound		PROJECT	NUMBER AI	ND NAME		
/BA-7 Operational Sys Dev	Combat/Support				C3098 Fire	Support Sv	/stems		
MBC SCHEDULE DE		FY 2004		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY2011
MBG GG! 125 G22 52		11 2004	1 1 2000	1 1 2000	1 1 2007	1 1 2000	1 1 2003	1 1 2010	1 12011
Phase I									
Ballistic									
Computer									
Select									
<u>I/II</u>									
Contract									
Software									
Developme		2Q							
Evaluation		3Q							
Operational		3Q							
Milestone III			1Q						
Initial			1Q						
Fielding			3Q						
Phase II -			1Q						
Developme			1Q						
Evaluation			4Q						
Certification				1Q					
FOT&E				2Q					
FOT&E				3Q					
Decision				4Q					
Production					1Q				
Acceptance					1Q				
Fielding					2Q				



								DATE:			
		hibit R-4/4a Schedu		Detail					F	ebruary 200	5
APPROPRIATIO	N/BUDGET ACTIVITY	PROGRAM ELEME				PROJECT	NUMBER AI	ND NAME			
DDT05 N /D4 T		0206623M Marine				00000 F:					
RDI&E, N/BA-/	Operational Sys Dev	Combat/Supportin			<b>5</b> ) / 2222		Support Sy		E) / 00 / 0	E) / 00 / /	
	IPADS SCHEDULE DE	IAIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
	Prepare Contract Documen	tation									
	RFP Release										
	Source Selection										
	Exercise EMD Contract Opt	tion									
	Developmental Testing/OT		1Q								
	Fleet Evaluation		4Q								
	Milestone C			1Q							
	Exercise Contract Production	on Option									
	Production			1Q							
	Initial Operational Capability	/ (I MEF)		3Q							
I	,		•	•	•			•			



# Expeditionary Fire Support System (EFSS)



Program Funding Summary	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
(APPN, BLI #, NOMEN)										
(U) RDT&E,N (C3098) EFSS	3.292	7.136	7.050	4.015	4.002	5.256	5.075	4.730	Cont	Cont
(U) PMC BLI# 206400 EFSS	0.000	0.000	5.965	7.337	5.851	9.755	10.150	0.000	0.000	39.058
(U) PMC BLI# 700000 Initial Spares	0.000	0.000	0.200	0.432	0.879	0.000	0.000	0.000	0.000	1.511
(U) PMC BLI# 442900 Gen. Purp. Test Equi	1.597	4.486	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.083
(U) PMC BLI# 418100 Gen. Purp. Test Equi	0.000	0.000	3.847	3.736	3.531	2.525	3.195	3.254	0.000	20.088
(U) PMC BLI# 442900 Tools, Sets and Kits	1.723	1.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.804
(U) PMC BLI# 418100 Tools, Sets and Kits	0.000	0.000	1.026	0.975	1.107	1.002	1.252	1.279	0.000	6.641

								DATE:			
		xhibit R-4/4a Schedu		Detail					F	ebruary 200	5
APPROPRIATIO	N/BUDGET ACTIVITY	PROGRAM ELEME				PROJECT	NUMBER AI	ND NAME			
DDTSE N/DA 7	Operational Sys Dev	0206623M Marine Combat/Supporting	Corps Gr	ound		C3098 Fire	Support S	ctome			
KDI&E, N/BA-/	EFSS SCHEDULE D		FY 2003		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	
	LI 00 OCHEDOLE D	LIAIL	1 1 2003	1 1 2004	1 1 2003	1 1 2000	1 1 2007	1 1 2000	1 1 2009	1 1 2010	
	Milestone A		3Q								
	Milestone B			4Q							
	Milestone C				2Q						
	Initial Operational Capab	lity				4Q					
	Full Operational Capabilit									1Q	

EXHIB	IT R-2a, RDT&E Project Jus	tification				DATE:			
<u> </u>	= 0,						Februai	rv 2005	
APPROPRIATION/BUDGET ACTIVITY		LEMENT NUM		AME	PROJECT NU	JMBER AND			
RDT&E, N /BA-7 Operational Sys Dev	Combat/Sup	porting Arms	Systems		C4002 Family	of Raid and	Reconnaiss	sance Equip	ment
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY10	FY11
Project Coot		3.539	3,401	1.783	2.181	1.169	0.615	0.633	0.57
Project Cost		3.339	3.401	1.703		1.100	0.013	0.000	0.0.
Project Cost  RDT&E Articles Qty		3.339	3.401	1.703	2.10	00	0.013	0.000	0.0
(U) A. MISSION DESCRIPTION AND BUDGET ITEM The Family of Raid and Reconnaissance Equipment p reconnaissance related programs. This line focuses o reconnaissance units throughout the operating forces. raid equipment.	rogram supports the researd n immediate capability enha This will include improving	ch, developme	nt, and procur	ement actions	for multiple ai	rborne/parach	nuting and sp	ecialized	
(U) A. MISSION DESCRIPTION AND BUDGET ITEM The Family of Raid and Reconnaissance Equipment p reconnaissance related programs. This line focuses o reconnaissance units throughout the operating forces. raid equipment.  (U) B. ACCOMPLISHMENTS/PLANNED PROGRAM	rogram supports the researd n immediate capability enha This will include improving	ch, developme incements to n airborne capa	nt, and procur numerous inse ability equipme	ement actions rtion and pers ent and items f	for multiple ai onnel equipme or direct action	rborne/parach ent shortfalls c n missions tha	nuting and sp currently exist at use this spe	ecialized ting in ecialized	
•	rogram supports the researd n immediate capability enha This will include improving	ch, developme	nt, and procur numerous inse ability equipme	ement actions rtion and pers ent and items f	for multiple ai	rborne/parach	nuting and sp currently exist at use this spe	ecialized	07

parachutists to carry combat equipment in various configurations and a means of supplying/re-supplying combat essentials to Marine units. Development on High Altitude High Opening (HAHO) navigation board, improved jumpers helmet, oxygen (O2) console system integrated with V-22 Osprey, and High Altitude Low Opening (HALO)/HAHO jumpers kit.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	0.513	0.246	0.195	0.189
RDT&E Articles Qty				

Family of Small Craft: Conduct engineering analysis and exploration of enhancements for modifications of the Family of Small Craft programs. The Small Unit Riverine Craft (SURC), Raid Open Water Safety Craft (ROWSC), Combat Rubber Reconnaissance Craft (CRRC), Non-Gasoline Burning Outboard Engines (NBOE), and other small craft items will be supported in the future as new craft and engines are fielded.

COST (\$ in Millions)	FY 2004	FY 2005	FY06	FY07
Accomplishment/Effort Subtotal Cost	1.882	2.800	0.723	1.511
RDT&E Articles Qty				

Underwater Reconnaissance Capability (URC): Concept exploration and development of prototypes for Divers Propulsion Device (DPD) and for the Tactical Hydrographic Survey Equipment (THSE) in support of underwater reconnaissance operations.

(U) Total \$ 3.539 3.401 1.783 2.181

EXHIBIT R-2a	DATE:										
	February 2005										
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELI 0206623M Mai	_		IE	PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev	Combat/Suppo				C4002 Family of Raid and Reconnaissance Equipment						
(U) PROJECT CHANGE SUMMARY:	FY 2004	FY 2005	FY 2006	FY 2007	<u>,</u>						
(U) FY 2005 President's Budget: (U) Adjustments from the President's Budget:	2.545	3.440	1.225	0.552							
(U) Congressional Program Reductions											
(U) Congressional Rescissions											
(U) Congressional Increases	1.033										
(U) Reprogrammings (U) Small Business Innovation Research Transfer	-0.039										
(U) Minor Affordability Adjustment	-0.039	-0.039	0.558	-0.077							
(U) POM 06 Adjustments				1.706							
(U) FY 2006 President's Budget: CHANGE SUMMARY EXPLANATION: (U) Funding: Not Applicable. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.	3.539	3.401	1.783	2.181	ı						
	<u>Y 2004                                   </u>	FY 2006	FY 2007	FY 2008	B FY 2009	FY 2010	FY 2011	To Compl	Total Cost		
PMC BLI #643400 Amph Raid Equipment PMC BLI #651800 Amph Support Equipment	9.277 15.710 0.000 0.000	0.000 16.105	0.000 13.843	0.000 27.988		0.000 7.193	0.000 8.166	0.000 Cont	24.987 Cont		
I WO DEI #00 1000 AMPH Support Equipment	0.000 0.000	10.105	13.843	21.988	21.309	7.193	8.100	Cont	Cont		

(U) Related RDT&E: Not Applicable.

#### (U) D. ACQUISITION STRATEGY:

The acquisition strategy consists of market surveys to identify off-the-shelf/non-developmental item baseline competitors. This will be followed by a release of desired capabilities/specifications and establishment of the trade space parameters. Project dependent, expect to down-select to best value. Follow-on testing/evaluations as required to be conducted.

#### (U) E. MAJOR PERFORMERS:

Oct 03, Oct 04, Oct 05 Panama City, FL Coastal Systems Station (CSS), system engineering in support of underwater reconnaissance

Nov 03, Nov 04, Nov 05 Natick, MA Natick Labs, system engineering

Dec 03 Quantico, VA Hardware Development

Exhibit R-3 Cost Analysis								DATE:		Februa	ary 2005			
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT 0206623M Marine Corps Ground Combat/Supporting				PROJECT NUMBER AND NAME										
RDT&E, N /BA-7 Operational Sy	/s Dev	Arms System	s		C4002 Fa	amily of I	Raid and F	Reconnai	ssance E	quipment				
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Hardware development	RCP	MCSC, Quantico, VA		1.193	12/03					0.287	12/06	Cont	Cont	
Systems Engineering	WR	CSS, Panama City, FL		1.930	10/03	2.370	10/04	1.258	10/05	1.100	10/06	Cont	Cont	
Systems Engineering	WR	Natick Labs, Natick, MA		0.107	11/03	0.419	11/04	0.140	11/05	0.295	11/06	Cont	Cont	
Subtotal Product Development			0.000	3.230		2.789		1.398		1.682		Cont	Cont	
Remarks: Funding for this progra	m in prior	years is provided under Pro	ject C1901		s PE.	1		11000	I	1	I.		1 00000	1
	<u> </u>	Tn ( ·	<del></del>		TEV 0.4		E) ( 05	1	I=\( 00		E) ( 07	1	ı	<del> </del>
· ·		Performing	Total	E) ( 0 4	FY 04	E) ( 0 E	FY 05	<b>5</b> ) ( 0.0	FY 06	E) ( 07	FY 07			Target
(	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
	RCP	BAE Inc, Stafford, VA		0.190	10/03	0.305	10/04	0.075	10/05	0.250	10/06	Cont	Cont	
Subtotal Support	L	<u> </u>	0.000	0.190	<u> </u>	0.305		0.075		0.250		Cont	Cont	
Remarks: Funding for this progra	ım ın prior y	years is provided under Proj	ject C1901	within thi	s PE.									
Cost Categories	Contract	Performing	Total	T	FY 04		FY 05		FY 06		FY 07			Target
	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
` ,	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
,	RCP	MCOTEA, Quantico, VA		0.040	04/04	0.250	11/04		_ = ===================================			0.000	0.290	
Subtotal T&E		,,	0.000	0.040		0.250		0.000		0.000		0.000	0.290	
Remarks: Funding for this progra	m in prior	years is provided under Pro	ject C1901		s PE.		•				•	•	1	•
Cost Categories	Contract	Performing	Total		FY 04		FY 05		FY 06		FY 07			Target
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 04	Award	FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contract
Management	RCP	MCSC, Quantico, VA		0.079	12/03	0.057	12/04	0.310	12/05	0.249	12/06	Cont	Cont	
Subtotal Management				0.079		0.057		0.310		0.249		Cont	Cont	
Remarks: Funding for this progra	ım in prior	years is provided under Pro	ject C1901	within thi	s PE.									
Total Cost			0.000	3.539		3.401		1.783	1	2.181	1	Cont	Cont	1

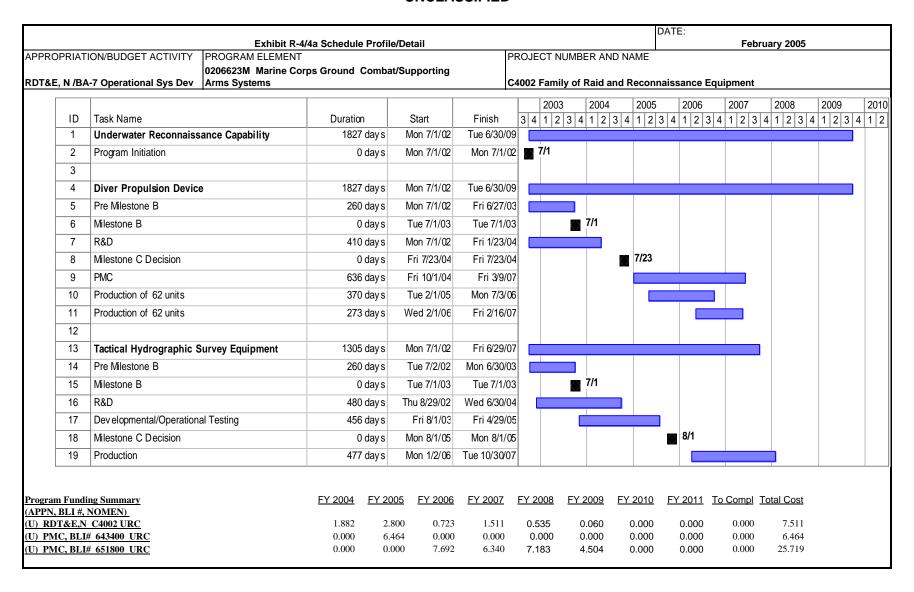


Exhibit R-4/4a Schedule Profile/Detail									DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT PROJECT NUMBER AND							ND NAME			,		
		Supporting					_					
	RDT&E, N /BA-7 Operational Sys Dev Arms Systems				1			nnaissance Equipment				
	URC SCHEDULE DETA	AIL	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
	Diver Propulsion Device											
	Milestone C		4Q									
	Tactical Hydrographic Surve											
	Developmental/Operational	Testing	1Q-4Q	1Q-3Q								
	Milestone C			4Q								