EXHIBIT R-2, RDT&E Bud	EXHIBIT R-2, RDT&E Budget Item Justification												
						Fe	ebruary 2004						
APPROPRIATION/BUDGET ACTIVITY		PROGRAM E	LEMENT (PE)	NAME AND I	NO.								
RDT&E, N /BA-4 Demonstration/Validation		0603635M M	arine Corps (	Fround Comb	oat/Supporting	g Arms Syste	ems						
COOT (A: MIII)	E)/ 0000	E)/ 0004	F)/ 0005	F)/ 0000	E) ( 0007	EV 0000	E)/ 0000	Cost to	Total				
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program				
Total PE Cost	31.622	26.009	22.440	13.674	4.986	2.837	2.876	Cont	Cont				
C1964 Anti-Armor Weapon System	1.117	0.754	0.493	0.497	0.500	0.516	0.525	Cont	Cont				
C2112 Lightweight 155mm Howitzer (LW155)	13.097	5.763	0.000	0.000	0.000	0.000	0.000	0.000	18.860				
C2256 Integrated Infantry Combat System	0.397	1.664	1.681	1.566	1.594	1.644	1.679	Cont	Cont				
C2507 Family of Small Craft	0.606	1.065	0.001	0.001	0.000	0.000	0.000	0.000	1.673				
C2508 Internally Transportable Vehicle (ITV)	2.063	0.000	5.715	0.003	0.000	0.000	0.000	0.000	7.781				
C2614 SMAW Follow-On	10.510	10.236	14.550	11.607	2.892	0.677	0.672	0.000	51.144				
C2998 Innovative Stand-Off Door Breaching Munition	2.390	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.390				
C9116 Nanoparticles Neutralization of Facility Threats	1.442	6.527	0.000	0.000	0.000	0.000	0.000	0.000	7.969				
Quantity of RDT&E Articles													

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

This PE supports the demonstration and validation of Marine Corps Ground/Supporting Arms Systems for utilization in Marine Air-Ground Expeditionary Force amphibious operations.

This program is funded under DEMONSTRATION & VALIDATION because it develops and integrates hardware for experimental test related to specific ground weapon system.

EXHIBIT R-2, RDT&E Budç	get Item Justification		DA	ATE: February 2004				
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT (PE) N	AME AND NO					
DT&E, N /BA-4 Demonstration/Validation	0603635M Mar	ine Corps Gr	ound Combat/	/Supporting Arms Systems				
. PROGRAM CHANGE SUMMARY								
	FY2003	FY2004	FY2005					
U) FY 2004 President's Budget:	31.059	19.700	20.612					
U) Adjustments from the President's Budget:								
(U) Congressional/OSD Program Reductions								
(U) Congressional Rescissions								
(U) Congressional Increases								
(U) Reprogrammings	0.598	6.000	3.947					
(U) SBIR/STTR Transfer	-0.085	0.000	0.000					
(U) Minor Affordability Adjustment	0.050	0.309	-2.119					
U) FY 2005 President's Budget:	31.622	26.009	22.440					
CHANGE SUMMARY EXPLANATION:								
(U) Funding: See Above. (See R-2a exhibits for brea	kout at project level).							
(U) Schedule:	, ,							
(U) Technical:								
· /								

EXHIBIT	R-2a, RDT&E Proje	ct Justification	1			DATE:			
							Februa	ry 2004	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUME	BER AND NAM	E	PROJECT NU	PROJECT NUMBER AND NAME			
RDT&E, N /BA-4 Advanced Component Dev & Pro	ototypes (ADCP&P)	0603635M Ma	rine Corps Gr	ound Combat	/Supt Arms	C1964 Anti-Armor Weapon System			
								Cost to	Total
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	1.117	0.754	0.493	0.497	0.500	0.516	0.525	Cont	Cont
RDT&E Articles Qty									

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

(U) This project provides for Marine Corps participation in the Joint Anti-Armor Program entitled Javelin (Advanced Anti-Tank Weapon System - Medium (AAWS-M)) and the Anti-Armor Weapon System - Heavy (AAWS-H). The Javelin weapon system Pre-Planned Product Improvement (P3I) program will provide the Marine Corps and Army with state-of-the-art capability to destroy sophisticated and future armored threats. The AAWS-H is a long range, antitank weapon system that will replace the Tube Launched, Optically Tracked, Wire Guided (TOW) Missile System. It will satisfy an operational requirement to provide increased range (4000 meters), increased lethality against all armored threats, to include explosive reactive armor, active protection, increased probability of hit and kill and increased gunner survivability. Possible Light Armored Vehicle-Anti Tank usage would promote commonality among Marine Corps systems.

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

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAI	М:		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.234	0.000	0.000
RDT&E Articles Qty			
Engineering/technical support to participate in technical	cal developments in the Javelin program	n.	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.351	0.366	0.304
RDT&E Articles Qty			
Engineering/technical support to participate in technical	cal developments in the AAWS-H prog	ram.	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.236	0.189	0.189
RDT&E Articles Qty			
Program Office support for the AAWS-H program.	•		-
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.199	0.000
RDT&E Articles Qty			
Conduct evaluation of Analysis of Alternatives (AOA	A) identified AAWS-H solution.	•	-
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.296	0.000	0.000
RDT&E Articles Qty			
Conduct Weapons System Explosive Safety Review I	Board (WSESRB) Insensitive Munition	s (IM) support.	
/LI\Total ©	4 447	0.754	0.402

(U)Total \$ 1.117 0.754 0.493

EXHIBIT R-2a, RD	EXHIBIT R-2a, RDT&E Project Justification								
							Februa		
APPROPRIATION/BUDGET ACTIVITY	F	PROGRAM ELE	MENT NUMBE	ER AND NAME		PROJECT NU	JMBER AND	NAME	
DDT05 N/DA (Advanced Comment Day 0 Destations of	\ DOD	200000514 14	· O O			04004 4		0	
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (A				una Compat/Sup	t Arms	C1964 Anti-A	rmor weapo	n System	
(U) Project Change Summary:	FY 2003	<u>FY 2004</u>	FY 2005						
(U) FY2004 President's Budget: (U) Adjustments to Previous President's Budget: (U) Congressional Program Reductions	0.868	0.762	0.498						
(U) Congressional Rescissions (U) Congressional Increases (U) Reprogrammings									
(U) SBIR/STTR Transfer	-0.006								
(U) Minor Affordability Adjustment	0.255	-0.008	-0.005						
(U) FY2005 President's Budget:	1.117	0.754	0.493						
CHANGE SUMMARY EXPLANATION:  (U) Funding: See Above.  (U) Schedule: Not Applicable.  (U) Technical: Not Applicable.									
(U) C. OTHER PROGRAM FUNDING SUMMARY:								To	
(U) PMC BLI# 301100 JAVELIN	Y 2003 1.012 19.317	FY 2004 0.000 0.583	FY 2005 0.000 0.595	0.000	Y 2007 0.000 0.510	FY 2008 0.000 24.236	FY 2009 0.000 0.001	Complete 0.000 0.000	Total Cost 1.012 142.766

## (U) Related RDT&E: Not Applicable.

## (U) D. ACQUISITION STRATEGY:

AAWS-H - The acquisition strategy anticipates a Competitively Awarded Cost Plus Development Contract with follow-on Firm Fixed Price Production Contract. JAVELIN - Acquisition strategy provides for pre-planned improvements for the Javelin hardware which is procured under a Firm Fixed Price Multi-Year Contract. The first Multi-Year covers FY 97 through FY 99. Hardware on this contract includes the Command Launch Unit (CLU), Tactical Round, Battery Unit, Basic Skills Trainer, and Field Tactical Trainer. The second Multi-Year covers the fiscal years 2000-2003.

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

FY 02 to completion - NSWC Dahlgren, VA. Engineering and technical support.

FY 04 - TBD. Evaluation of AAWS-H solution.

EXHIBIT R	2a, RDT&E Proj	ect Justification	on			DATE:						
							Februar	y 2004				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	ΙE	PROJECT NUI	ROJECT NUMBER AND NAME					
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP& 0603635M Marine Corps Ground Combat/Supt Arms					C2256 Integra	ted Infantry C	ombat Systen	n (IICS)				
								Cost to	Total			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program			
Project Cost	0.397	1.664	1.681	1.566	1.594	1.644	1.679	Cont	Con			
RDT&E Articles Qty												

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

(U) The program will enhance the Marine Rifle Squad's battlefield capabilities through the development, optimization, and integration of an assortment of Marine systems/components and technologies into a cohesive, timely and combat effective system. These systems/components include weapons, integrated helmet assembly, protective clothing, communication and target acquisition technologies. This will provide the infantryman with increased lethality, survivability and situational awareness enhancements. Initial funding in this line will be used to determine and exploit integration opportunities on existing infantry equipment being fielded in the near future. Funds will also be used for the Research & Development of a future integrated system that is modular in design and will enhance the infantryman's mobility, lethality, survivability and communications. The IICS is an overarching program, consisting of three main phases. The initial phase enables base-lining current systems. The second phase consists of an iterative process integrating mid-term capabilities, and the final phase inserts technology where opportunities exist. The program will leverage joint technologies but the Marine infantryman's unique items that are worn, carried or consumed will be used for the baseline.

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

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.168	0.865	0.969
RDT&E Articles Qty			

Program management, specialized engineering and technical support.

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.229	0.600	0.000
RDT&E Articles Qty			

Modeling and Simulation (M&S) scenario development to refine and validate models for assessing IICS efforts (Military Operations in Urban Terrain (MOUT) & Jungle Vignettes; and Mountain and Nuclear, Biological and Chemical (MNTN & NBC) environment vignettes.)

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.199	0.000
RDT&E Articles Qty		1	

Development of prototype working integration issues with the development of combat gear (Soldier and Biological Chemical Command (SBCCOM) Natick, MA)

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.712
RDT&E Articles Qty			

Product Development and integration efforts.

(U) Total \$ 0.397 1.664 1.681

		Ola	CLASSII ILD	
EXHIBIT R-	2a, RDT&E Proje	ect Justification		DATE:
				February 2004
APPROPRIATION/BUDGET ACTIVITY	RIATION/BUDGET ACTIVITY PRO		MENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-4 Advanced Component Dev & Prot	otypes (ADCP&	0603635M Marin	e Corps Ground Combat/Supt Arms	C2256 Integrated Infantry Combat System (IICS)
(U) PROJECT CHANGE SUMMARY:	FY2003	FY2004	<u>FY2005</u>	
(U) FY 2004 President's Budget:	1.740	1.682	1.692	
(U) Adjustments from the President's Budget:				
(U) Congressional Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings				
(U) SBIR	-0.031			
(U) Minor Affordability Adjustment	-1.312	-0.018	-0.011	
(U) FY 2005 President's Budget:	0.397	1.664	1.681	
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

- (U) C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.
- (U) Related RDT&E: (U) PE 0602131M (Marine Corps Landing Force Technology)
  - (U) PE 0603640M (Marine Corps Advanced Technology Demonstration)
  - (U) PE 0604657A (US Army Land Warrior Program)
- (U) C. ACQUISITION STRATEGY: The Integrated Infantry Combat System is a phased approach of enhancements to the rifle squad with an endstate of a "system." Modularity and integration are important design factors. Risks associated with technology creep and cost will be mitigated by 1) improving the equipment and making it modular in form, 2) integrating these individual improvements into the squad as a whole, and 3) completing this via a phased approach.

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

- Oct 02, Oct 03 Concurrent Technologies Corporation, Johnstown, PA Produced a technology roadmap for Marine infantry equipment.
- Oct 04 M2 Technologies & Whitney, Bradley & Brown Tysons Corner, VA Concept of Operations, Capabilities Development.
- May 02 SAIC Corp, Dumfries, VA Producing the Integrated Computer Aided Manufacturing (ICAM) model which models relative worth of different Marine infantry equipment.
- Oct 02, Oct 03, Oct 04 NSWC Dahlgren, VA Specialized engineering and technical support.
- Feb 03, Oct 03, Oct 04 BAE Inc., Stafford, VA Program management and technical support.
- Oct 04 Titan Systems, Stafford, VA Program management and technical support.
- (U) SCHEDULE PROFILE: Not Applicable.

		Exhibit R-3 Cost Analysis					DATE:		Februs	rv 2004		
APPROPRIATION/BUDGET	ΔΟΤΙΛΊΤΑ	PROGRAM ELEMEN	NT			PRO IEC	I T NI IMBE	R AND NA		ii y 2004		
RDT&E, N /BA-4 Dem/Val	AOTIVITI	0603635M MC Grou		at/Sunt Ai	ms			nfantry Co		stem		
	Contract	Performing	Total		FY 03	OZZOO III	FY 04		FY 05	l		Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost		Date	Cost	Date	Cost	Date	Complete		Contrac
Product Development	MIPR	CTC, Johnstown, PA	0.294							0.000		1
Product Development	MIPR	SBCCOM, NATICK, MA	0.125			0.199	10/03			Cont.	Cont.	
Product Development	MIPR	TBD						0.500	10/04	Cont.	Cont.	
Product Development	MIPR	SAIC Corp, Dumfries, VA	0.753							Cont.	Cont.	
Product Development	RCP	Various	1.704							Cont.	Cont.	
Subtotal Product Dev			2.876	0.000		0.199		0.500		Cont.	Cont.	
Remarks:								•			•	
Cost Categories		Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Ite	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value o
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
SUPPORT												
Program Support	WR	NSWC DAHLGREN, VA	0.519		10/02	0.284		0.298		Cont.	Cont.	
Program Support	RCP	SAIC, Inc., Dumfries, VA	0.170			0.150		0.148		Cont.	Cont.	
Program Support	RCP	BAE, Inc., Stafford, VA				0.000		0.000		Cont.	Cont.	
Program Support	RCP	Titan Systems Inc, Stafford, VA				0.331	10/03	0.325		Cont.	Cont.	
Program Support	RCP	M2/WB&B Inc. Tysons Corner, V				0.500		0.360		Cont.	Cont.	
Program Support	RCP	BAE, Inc., Stafford, VA	0.255			0.150		0.000	10/04	Cont.	Cont.	
Subtotal Support			0.944	0.368		1.415		1.131		Cont.	Cont.	
Remarks:												
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Ite	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value o
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete		Contrac
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or System/Ite	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete		Contrac
Travel	WR	MCSC, Quantico, VA	0.110			0.050		0.050		Cont.	Cont.	
Subtotal Management			0.110	0.029		0.050		0.050		Cont.	Cont.	
Remarks:												
Total Cost				0.397		1.664		1.681		Cont.	Cont.	

EXHIBI	T R-2a, RDT&E I	Project Justifi	cation			DATE:					
						February 2004					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUM	BER AND NAM	1E	PROJECT NU	JMBER AND NAME					
RDT&E, N /BA-4 Demonstration/Validation	0603635M Ma	0603635M Marine Corps Ground Combat/Supt Arms C2508 Intern						nally Transportable Vehicle (ITV)			
								Cost to	Total		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY2008	FY2009	Complete	Program		
Project Cost	2.063	0.000	5.715	0.003	0.000	0.000	0.000	0.000	7.781		
Project Cost	2.003	0.000	5.715	0.003	0.000	0.000	0.000	0.000	7.701		
RDT&E Articles Qty											

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

The Internally Transportable Vehicles (ITV) program was previously known as the Light Strike Vehicle (LSV) program. This project develops a joint MV-22 aircraft transportable family of light tactical, wheeled vehicles. The ITV's will provide reconnaissance units with a high mobility weapons platform. Follow-on variants will address logistics, command and control, medical and personnel movement missions. The ITV will replace the Fast Attack Vehicles (FAVs) currently employed throughout the Marine Air Ground Task Force (MAGTF).

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

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.300	0.000	0.469
RDT&E Articles Qty			
ITV: Research and Engineering Studies			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.160	0.000	1.000
RDT&E Articles Qty			
ITV: Engineeering and Logistic Support			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.660	0.000	0.800
RDT&E Articles Qty			
ITV: Program Management and Support			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.643	0.000	0.000
RDT&E Articles Qty			
ITV: Prototype Development & Testing	•		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.300	0.000	3.446
RDT&E Articles Qty			
ITV: Procure Test Vehicles	<u>.</u>		-
(U) Total \$	2.063	0.000	5.715

Exhibit R-2a, RDTE,N Project Justification (Exhibit R-2a, page 8 of 16)

EXHIBIT	R-2a, RDT&E Project Justifica	ition		DATE:
	•			February 2004
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	R AND NAME		PROJECT NUMBER AND NAME
DT&E, N /BA-4 Demonstration/Validation	0603635M Marine Corps Grou	und Combat/Su	ıpt Arms	C2508 Internally Transportable Vehicle (ITV)
J) Project Change Summary	FY2003	FY 2004	FY 2005	
J) FY2004 President's Budget	1.945	0.000	0.000	
U) Adjustments from the FY 2004 President's	Budget:			
(U) Congressional/OSD Program Reducti	ons			
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	0.264		5.746	
(U) SBIR/STTR Transfer	-0.039			
(U) Minor Affordability Adjustment	-0.107		-0.031	
U) FY 2005 President's Budget	2.063	0.000	5.715	

#### CHANGE SUMMARY EXPLANATION:

- (U) Funding: Changes in FY 03 are due to a \$39K SBIR reduction, a \$107K affordability adjustment and a \$264K increase due to realignment of Marine Corps funds. Changes in FY05 are due to a \$31K minor affordability reduction and a \$5.746M increase due to realignment of Marine Corps funds
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.
- (U) C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable.
- (U) Related RDT&E: United States Special Operations Command (USSOCOM) joint participation in the ITV program. USSOCOM funding will be applied towards testing and evaluation of the Expeditionary Assault variant of the ITV in conjunction with Marine Corps funding.
- (U) D. ACQUISITION STRATEGY: The program is in the final phases of requirements revision. The current acquisition strategy is for procurement of a Commercial, off-the-shelf/Non-Developmental Item (COTS/NDI) solution. This strategy is evolving into modified COTS or Spiral Development, based upon results of ongoing studies.
- (U) E. MAJOR PERFORMERS:
- FY03 USSOCOM, Test and Evaluation
- FY03 Naval Air Warfare Center, Carderrock, MD Engineering Support
- FY05 TBD, Procure Test Vehicles

								DATE:				
		Exhibit R-3 Cost And	_							ebruary 200	4	
APPROPRIATION/BUDGET A	CTIVITY	PROGRAM ELEMI						R AND NAME				
RDT&E, N /BA-4 Dem/Val		0603635M MC Gr	ound Comb	oat/Supt Ar	ms	C2508 Inte		ansportable		ΓV)		
•	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Prototype Development	RCP	MCSC, Quantico VA	6.454	0.300	05/03			3.446	2Q/05	0.000	10.200	10.20
Product Development	RCP	MCSC, Quantico VA	1.294	0.500	01/03					0.000	1.794	1.79
Subtotal Product Dev			7.748	0.800		0.000	)	3.446		0.000	11.994	11.99
Remarks:												•
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Development Support	WR	Naval Surface Warfare Ctr VA	0.821	0.340	12/02			0.600	1Q/05	0.000	1.761	1.76
	MIPR	Army Engineers, MS	0.125					0.100		0.000	0.225	0.22
	WR	Naval Air Warfare Center, MD	0.300		12/02			0.300		0.000	0.660	
	WR	Naval Surface Warfare Ctr IN	0.165		12/02			0.200		0.000		
,	MIPR	Tank-Auto Command, IL	0.185					0.000		0.000		
Subtotal Support			1.596	0.500		0.000	)	1.200		0.000	3.296	3.29
Remarks:												
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
	MIPR	Aberdeen Proving Grnd, MD	1.139							0.000		
	WR	Naval Air Warfare Center, MD	0.200					0.277		0.000	0.857	0.85
Subtotal T&E			1.339	0.380		0.000	)	0.277		0.000	1.996	1.99
Remarks:												
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
(Tailor to WBS, or Sys/Item	Method	Activity &	PY s	FY03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	Contrac
Contractor Eng Suppt		MCSC, Quantico VA	0.185					0.300	1Q/05	0.000	0.615	0.61
Prog. Mgt, Spt, & Tvl		MCSC, Quantico VA	0.183					0.492		0.000	0.928	
Subtotal Management			0.368	0.383		0.000	)	0.792		0.000	1.543	1.54
Remarks:												
Total Cost			11.051	2.063		0.000		5.715		0.000	18.829	

						DATE:					
EXHIBIT	R-2a, RDT&E F	Project Justifica	ation			February 2004					
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME					ME				
RDT&E, N /BA-4 Advanced Component Dev &	PT&E, N /BA-4 Advanced Component Dev & Prototypes						ler-Launched	Multi-Purpose	e Assault		
(ADCP&P)		0603635M Marine Corps Ground Combat/Supt Arms				Weapon (SMAW) Follow-on					
								Cost to	Total		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program		
Project Cost	10.510	10.236	14.550	11.607	2.892	0.677	0.672	0.000	51.144		
RDT&E Articles Qty											

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

Follow-On To Shoulder-Launched Multi-Purpose Assault Weapon (FOTS) is an accurate, shoulder-fired, assault weapon designed to defeat a variety of targets on the battlefield. It consists of a launcher, sighting and fire control system, and projectile. FOTS will replace the Shoulder-Launched Multi-Purpose Assault Weapon (SMAW) without loss of present capabilities while providing: 1) fire from enclosure capability, 2) reduced launcher signature, 3) increased lethality, 4) greater breaching effects, 5) lighter weight, 6) increased reliability, and 7) increased availability.

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

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	7.141	0.000	0.000
RDT&E Articles Qty			
System integration, concept and technical development	<u>'</u>	L	1
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.333	6.296	0.000
RDT&E Articles Qty			
Conduct systems testing and evaluation in support of source	ce selection for phase B		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.991	0.955	1.471
RDT&E Articles Qty			
Provide government program management / in-house supp	port		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.079	0.100	0.140
RDT&E Articles Qty			
Travel/Temporary Additional Duty (TAD)			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.020	1.000	1.920
RDT&E Articles Qty			
Provide government engineering and technical support			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.946	0.000	0.000
RDT&E Articles Qty			
Provide Contractor PM, Acq, and Engineering Support			•

						DATE:					
		Project Justification				February 2004					
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEM	ENT NUMBER	AND NAME	PROJECT NUMBER AND NAME						
RDT&E, N /BA-4 Advanced Component Dev & Pr						C2614 Should		/lulti-Purpose	Assault		
(ADCP&P)		0603635M Marine	•			Weapon (SMA					
COST (\$ in Millions)		FY 200		FY 200		FY 2					
Accomplishment/Effort Subtotal Cost		0.000		1.885	1	10.7	19				
RDT&E Articles Qty System development and demonstration RISK MIT	IGATIONS										
COST (\$ in Millions)		FY 200	2	FY 200	14	FY 2	005				
Accomplishment/Effort Subtotal Cost		0.000		0.000		0.3					
RDT&E Articles Qty		0.000		0.000	<u>'</u>	0.0	30				
Initial Operational Test and Evaluation (IOT&E) pro	eparatory work	<u> </u>									
(U) Total \$		10.510		10.236		14.550					
(U) PROJECT CHANGE SUMMARY:											
	FY2003	FY2004	FY2005								
(U) FY 2004 President's Budget:	10.185	10.351	18.422								
(U) Adjustments from the President's Budget:											
(U) Congressional/OSD Program Reductions											
(U) Congressional Rescissions											
(U) Congressional Increases											
(U) Reprogrammings	0.334		-1.800								
(U) SBIR/STTR Transfer	-0.009										
(U) Minor Affordability Adjustment	0.000	-0.115	-2.072								
(U) FY 2005 President's Budget:	10.510	10.236	14.550								
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 2003	FY 2004	FY 2005	FY 2006	FY 200	7 FY 2008	FY 2009	To Compl	Total Co		
(U) PMC 301600 Follow On To SMAW	0.000	0.000	0.000	2.129	2.43	35 2.374	4.242	Continuing	Continui		
(U) PANMC 147100 Follow On To SMAW	0.000	0.000	0.000	9.561	60.13	37 77.882	118.933	Continuing	Continuir		

R-1 SHOPPING LIST - Item No. 58

		DATE:
EXHIBIT R-2a, RDT&E	Project Justification	February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-4 Advanced Component Dev & Prototypes		C2614 Shoulder-Launched Multi-Purpose Assault
(ADCP&P)	0603635M Marine Corps Ground Combat/Supt Arms	Weapon (SMAW) Follow-on

(U) Related RDT&E: Not Applicable.

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

The acquisition strategy for Follow-On To Shoulder-Launched Multi-Purpose Assault Weapon (FOTS) represents a fundamental shift from the traditional military systems acquisition paradigm in which external market demand is leveraged by offering a fully developed system to external markets. Rather, the market place will influence the determination of the ultimate design of the weapon in order to capitalize on an expanded customer base to facilitate interoperability and achieve economies of scale. The subsystem integration and demonstration phase was a competitive cost plus fixed fee program, awarding to multiple contractors and culminating in a comparative demonstration, leading to a down-selection to a single contractor for the System Development and Demonstration phase. System Development and Demonstration phase will be full and open competition, cost plus fixed fee.

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

May 03 - Lockheed Martin (Orlando, FL) and General Dynamics (Burlington, VT). System integration.

Oct 04 - TBD. System development and demonstration.

								DATE:				
		Exhibit R-3 Cost Analysis		T					1 _	February 2		
APPROPRIATION/BUDGET					AM ELEI					CT NUMBE		ИE
		Dev & Prototypes (ADCP&P)		0603635		round Co		upt Arms		MAW Follo	ow-on	1
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete		Contract
Product Development	SS/CPAF	CMS Defense Sys,Titusville,FL	4.000							0.000		
Product Development	_	InvenCom Inc., Charlotte, NC	1.300							0.000		
Product Development		Raphael, USA	0.600							0.000		
System Integration	C/CPAF	Lockheed Martin, Orlando, FL		3.508	05/03	1.000	04/04			0.000	4.508	
System Integration	C/CPAF	General Dynamics, Burlington, VT		3.333	05/03	0.855	04/04			0.000	4.188	
System Devel & Demo	SS/CPAF	TBD						9.162	10/04	0.000	9.162	
Product Development	C/CPAF	Auto Opening Device		0.300	04/03					0.000	0.300	
LRIP .	SS/FFP	TBD						1.800	10/04	Cont.	Cont.	
Subtotal Product Dev			5.900	7.141		1.855		10.962		Cont.	Cont.	
Remarks:	•					1	II.		ı		II.	
Coot Cotomovico	Comtroot	Do uto uno in a	Tatal	1	FY 03	1	FY 04		FY 05	1	1	T
Cost Categories	Contract	Performing	Total PY s	EV 00		FY 04		EV 05		Cost to	Tatal	Target
	Method	Activity &		FY 03	Award	Cost	Award	FY 05	Award		Total	Value of
Due sue les Comment	& Type	Location	Cost 2.577	Cost 0.809	Date 10/02		Date 10/03	Cost	Date	Complete		Contract
Program Support Program Support	WR WR	NSWC, Dahlgren, VA NAVSEA, Indian Head, MD		0.809		0.580	10/03	1.251	10/04	Cont. 0.000		
Program Support	C/IDIQ	Telecolote Inc., Huntsville, AL	0.501 0.124	0.180	04/03	0.075	10/03	0.075	10/04		Cont.	
Program Support	C/FFP	BAE Systems, Stafford, VA	0.124			0.075		0.075		Cont. Cont.	Cont.	
Subtotal Support	C/FFF	BAE Systems, Stanord, VA	3.202	1.966		1.030		1.822	10/04	Cont.	Cont.	
Remarks:		<u> </u>	3.202	1.900		1.030	'	1.022		Cont.	Cont.	
	_											
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete		Contract
Operational T&E		MCOTEA, Quantico, VA		0.020				0.300	10/04	Cont.	Cont.	
Developmental Test & Eval		NSWC Dahlgren Div, Dahlgren, VA		0.200		6.406	10/03			0.000	6.606	
Test & Evaluation	WR	NSWC Crane, IN		0.113								
Subtotal T&E			0.000	0.333		6.406		0.300		Cont.	Cont.	
Remarks:												
Cost Categories	Contract	Performing	Total		FY 03		FY 04		FY 05			Target
	Method	Activity &	PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Value of
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete		Contract
Management Support	WR	MCSC, Quantico, VA	0.406	1.070	10/02	0.945	10/03	1.466	10/04	Cont.		
Subtotal Management			0.406	1.070		0.945		1.466		Cont.	Cont.	
Remarks:			1	1	1	ı	1	1	ı	1	ı	
Total Cost				10.510		10.236		14.550		Cont.	Cont.	
10.01 0031		<u>l</u>	ı	10.010	l .	10.230	1	17.550	l	J Cont.	L COIII.	'I

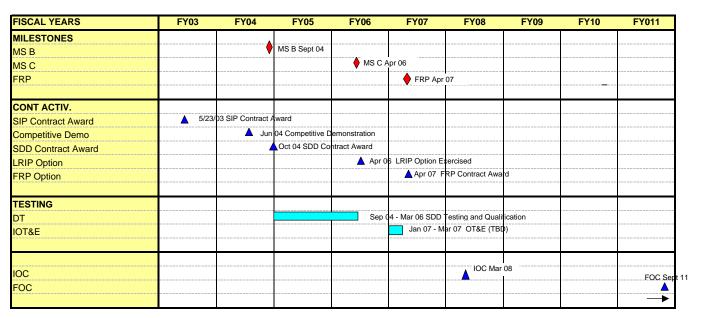
Exhibit R-4/4a Schedule Profile/Detail

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)

PROGRAM ELEMENT
O603635M MC Ground Combat/Supt Arms

DATE:
February 2004
PROJECT NUMBER AND NAME
C2614 SMAW Follow-on

FOLLOW ON TO SMAW (FOTS)



Program Funding Summary	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N (U) PMC 301600 Follow On To SMAW (U) PANMC 147100 Rockets All Types (FOTS)	10.510 0.000 0.000	10.236 0.000 0.000	14.550 0.000 0.000	11.607 2.129 9.561	2.892 2.435 60.137	0.677 2.374 77.882	4.242	Continuing Continuing Continuing	Continuing

		DATE:
Exhibit R-4/4a Schedule	Profile/Detail	February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME
RDT&E, N /BA-4 Advanced Component Dev & Prototypes (ADCP&P)	0603635M MC Ground Combat/Supt Arms	C2614 SMAW Follow-on

FOTS SCHEDULE DETAIL	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Milestone B		4Q					
System Integration	3Q						
System Design and Development Contract Award			1Q				
System Test and Evaluation			1-4Q	1-2Q			
Milestone C				3Q			
Production				3-4Q	1-2Q		
IOT&E					2Q		
FRP					3-4Q	1-4Q	1-4Q
IOC						2Q	