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CLASSIFICATION:									
EXHIBIT R-2, RDT&E Budget I	tem Justification				DATE:				
						F	ebruary 200	4	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM	ELEMENT	(PE) NAME	AND NO.				
RDT&E, N /BA-6 Management Support		0605873M	Marine Cor	ps Progran	n Wide Supp	ort			
								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	26.441	29.297	19.701	25.600	30.289	34.091	32.555	Cont	Cont
C0030 Marine Corps Studies and Analyses	7.516	7.042	5.881	6.098	6.225	6.432	6.569	Cont	Cont
C0033 Marine Corps Operational Testing & Evaluation Activity	2.391	2.739	2.704	2.759	2.810	2.899	2.960	Cont	Cont
C2330 Family of Incident Response Systems (FIRS)	14.633	13.347	2.860	7.398	10.836	13.957	11.865	Cont	Cont
C2930 Phase 0 Activities	1.901	6.169	8.256	9.345	10.418	10.803	11.161	Cont	Cont
Quantity of RDT&E Articles									

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

This program element (PE) provides the analytical foundation for the Marine Corps Studies System (MCSS), including mandated Mission Area Analyses and Cost and Operational Effectiveness Analyses. The MCSS is the front end of the Marine Corps' acquisition system, supporting the Concepts Based Requirements Systems and Combat Development Process. In addition, the PE supports Marine Corps Operational Test and Evaluation (OT&E) Activities.

This program is funded under RDT&E MANAGEMENT SUPPORT because it supports the operations and installation required for general research and development use.

B. PROGRAM CHANGE SUMMARY

	FY2003	FY2004	FY2005
(U) FY 2004 President's Budget:	27.476	16.635	19.766
(U) Adjustments from the President's Budget:			
(U) Congressional/OSD Program Reductions			
(U) Congressional Rescissions			
(U) Congressional Increases		13.000	
(U) Reprogrammings	-0.037		
(U) SBIR/STTR Transfer	-0.593		
(U) Minor Affordability Adjustment	-0.405	-0.338	-0.065
(U) FY 2005 President's Budget:	26.441	29.297	19.701
CHANGE SUMMARY EXPLANATION:			
(U) Funding: See Above.			

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

UNCLASSIFIED									
EXHIB	T R-2a, RDT&E Proj	ect Justification			DATE: February 2004				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-6 Management Support	PROGRAM ELEM 0605873M Marine				PROJECT NUMB C0030 Marine Co		nalyses		
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	Cost to Complete	Total Program
Project Cost	7.516	7.042	5.881	6.098	6.225	6.432	6.569	Cont	Cont
RDT&E Articles Qty									

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

This project funds the general studies and analysis portion of the Marine Corps Studies System (MCSS) and provides the analytical underpinnings and foundation for the MCSS. The project funds a variety of studies and analyses approved for execution in the annual Marine Corps Studies Master Plan (MCSMP) including mandated Mission Area Analyses (MAAs), Milestone A, and Pre-Milestone A (Conceptual) Analysis of Alternatives (AoAs), technology assessments, force structure analysis, weapons systems analysis, concept development and analysis, cost benefit analysis, training assessments, feasibility analysis, scenario development, and other analyses in support of the Program Objective Memorandum (POM) initiatives and the Marine Corps, as a whole. The MCSS also supports the front end of the Marine Corps' acquisition system, the Expeditionary Force Development Eystem (EFDS), and the Combat Development Process (CDP). The MAA process provides quantitative and qualitative information to decision makers for basing decisions effecting improvements in operational concepts, doctrine, force structure, education, training, and procurement. The MCSS also provides analytical support to decision makers for the resolution of current problems and issues identified by the operating forces. The MCSS also makes use of the Marine Corps Research University to conduct studies and analysis projects in the areas of basic and applied research and Advanced Technology Development.

In FY03 and FY04, funds were provided to the Corrosion Control Program for test and evaluation of corrosion products and materials for military equipment, storage methods, corrosion training and other CPAC tasks, within joint service and OSD/ATL CPAC specifications, standards and policies.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	5.150	4.734	4.976
RDT&E Articles Qty			

In FY-03, completed the following FY02 efforts: Expeditionary Fires Study, Imagery Analysis Support, Remain Behind Equipment (RBE) Management, Depot Future, and the Expeditionary Airfield (EAF) studies. Commenced the following FY03 efforts: Marine Expeditionary Brigade 2015, Advanced Amphibious Assault Vehicle (AAAV) Carry Capacity Key Performance Parameters (KPP) and Analysis of Alternatives, Joint Tactical Radio System (JTRS) Migration Strategy, Analysis of Alternatives for Advanced Antitank Weapon System - Heavy, United States Marine Corps Overarching Battery, Marine Air Ground Task Force (MAGTF) Expeditionary Family of Fighting Vehicles Capabilities Requirements, United States Marine Corps Manpower Requirements Criteria, Establishing Time Criteria for Logistics Tasks and the Light Amored Vehicle (LAV) Expeditionary Fire Support System (EFSS) studies.

In FY04, continue and complete the following efforts: Marine Expeditionary Brigade (MEB) 2015, Joint Tactical Radio System (JTRS) Migration Strategy, Expeditionary Airfield (EAF), Establishing Time Criteria for Logistics Tasks, USMC Manpower Requirements Criteria, Light Armored Vechicle (LAV) Expeditionary Fire Support System (EFSS), and the Remain Behind Equipment (RBE) Management studies. Commence the following FY-04 efforts: Lightweight Prime Mover; Flight Deck Manning for MPF(F) Aviation Capable Ships; Transformation of C4 Training, Manpower, and Structure to Support the 21st Century United States Marine Corps; Evaluation of USMC Operational Linguist Requirements & Resources; Operational Analysis of the Marine Air Ground Task Force (MAGTF) Distribution Center; Ammunition Logistics Chain; Developing an Optimal Strategy for Implementating Future Theater-Level Contractor Logistics Support (CLS); Marine/Future Combat Systems (FCS) Technology Strategy; USMC KC-130 Requirements, Review of Deployment Mobility Growth, and the Bulk Liquids Transportation Option studies.

Initiate the high priority study and analysis projects approved in the FY2005 Marine Corps Studies Master Plan (MCSMP) and initiate new Analysis of Alternatives support as nominated and approved.

UNCLASSIFIED						
EXHIBIT R-2a, RDT&E Project Justification DATE:						
		February 2004				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME				
RDT&E, N /BA-6 Management Support	0605873M Marine Corps Program Wide Support	C0030 Marine Corps Studies and Analyses				

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.413	0.908	0.905
RDT&E Articles Qty			

In FY03, continued and completed the following FY02 efforts: Concept of Link Employment (COLE), Marine Corps Meteorological and Oceanographic Support studies.

In FY04, continue and complete the following FY03 efforts: Anti-Terrorism/Force Protection Phase II, Integration of Diagnostics into Ground Equipment Life Cycle Management, and Enabling Logistics with Portable and Wireless Technology. Commence the FY04 Recruiter Selection and Training study.

Initiate high priority study and analysis projects and studies nominated and approved in the FY2005 Marine Corps Studies Master Plan (MCSMP).

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.953	1.400	0.000
RDT&E Articles Qty			

Provide Corrosion Control Program Support.

(U) Total \$ 0.000 7.516 7.042 5.881

(U) PROJECT CHANGE SUMMARY	FY2003	FY2004	FY2005
(U) FY 2004 President's Budget:	6.167	5.721	5.900

- (U) Adjustments from the President's Budget:
- (U) Congressional Program Reductions
- (U) Congressional Rescissions
- (U) Congressional Increases 1.400
- (U) Reprogrammings 1.504
- (U) SBIR/STTR Transfer -0.155
- (U) Minor Affordability Adjustment -0.079 -0.019
 (U) FY 2005 President's Budget: 7.516 7.042 5.881
 - (U) 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: PE 0605154N (Center for Naval Analyses (CNA), Project C0031 (Marine Corps Operations Analysis Group)
- (U) D. ACQUISITION STRATEGY: Not Required.

	UNCLASSIFIED							
	EXHII	BIT R-2a, RDT&E Project Justification	DATE:					
			February 2004					
	BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-6 N	Management Support	0605873M Marine Corps Program Wide Support	C0030 Marine Corps Studies and Analyses					
U) E. MAJOR PE	RFORMERS: Indefinite D	elivery Indefinite Quantity contracts as follows:						
Y 03 - FY04	Decision Engineering	Associates LLC, Dumfries, VA for analytical and support services. M	ar 02.					
Y 03 - FY04	Computing Technolog	ies Inc. (CoTs) Fairfax, VA for analytical and support services. Jan 04						
Y 03 - FY04		h University at Pennsylvania State, State College, PA for analytical and						
Y 03 - FY04	Northrop Grumman M	ission Systems (NGMS), Fairfax, VA for Analytical and support service	es. Nov 01.					
U) SCHEDULE P	ROFILE: Not Applicable							
,								

EXHIBIT R-2a, RDT&E	Project Justific	ation		DATE:					
						Februa	ry 2004		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	PROGRAM ELEMENT NUMBER AND NA			PROJECT NUMBER AND NAME				
RDT&E, N /BA-6 Management Support	0605873M Ma	0605873M Marine Corps Program Wide Support			C0033 Marine Corps Operational Testing & Evaluation Activi				n Activity
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	2.391	2.739	2.704	2.759	2.810	2.899	2.960	Cont	Cont
RDT&E Articles Qty									

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

The Marine Corps Operational Test and Evaluation Activity (MCOTEA) supports the material acquisition process by managing the Marine Corps Operational Test (OT) programs for Acquisition Categories (ACAT) I through ACAT IV (less OT of manned aircraft) and performs other functions that may be directed by the Commandant of the Marine Corps. The primary purpose of Operational Test and Evaluation (OT&E) is to provide information to the Milestone Decision Authority (MDA) regarding the Operational Effectiveness (OE) and Operational Suitability (OS) of the system addressed at at decision point. MCOTEA must ensure that the Marines in the Operating Forces receive the very best possible equipment and support. MCOTEA must ensure each system proposed for acquisition is tested adequately, evaluated objectively and reported independently.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.549	0.740	0.656
RDT&E Articles Qty			
MCOTEA: Provide for organizational support and utili	ties.		
0007 (0 : 143)	F)/ 0000	EV 0004	F)/ 000F
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.631	1.520	1.848
RDT&E Articles Qty			
MCOTEA: Provide for organizational salaries.			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.211	0.479	0.200
RDT&E Articles Qty			
MCOTEA: Provide organizational support, utilities, an	d salaries for the New Automation Infor	mation Systems (AIS) test bran	ch.

MCOTEA: Provide organizational support, utilities, and salaries for the New Automation Information Systems (AIS) test branch.

(U) Total \$ 2.391 2.739 2.704

EXHIBIT R-2a, RDT&E F	Project Justification	on	DA	TE:	
					February 2004
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NUMB	ER AND NAME	Ξ	PROJECT NUMBER AND NAME
RDT&E, N /BA-6 Management Support	0605873M Marin	ne Corps Pro	gram Wide Su	pport	C0033 Marine Corps Operational Testing & Evaluation Activity
(U) Project Change Summary	FY2003	FY2004	FY2005		
(U) FY 2004 President's Budget:	2.389	2.770	2.713		
(U) Adjustments from the President's Budget:					
(U) Congressional Program Reductions					
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	0.034				
(U) SBIR/STTR Transfer	-0.003				
(U) Minor Affordability Adjustment	-0.029	-0.031	-0.009		
(U) FY 2005 President's Budget:	2.391	2.739	2.704		
CHANGE SUMMARY EXPLANATION:					
(U) Funding: See Above.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					
(U) C. OTHER PROGRAM FUNDING SUMMA	RY: Not Applicab	le			
(c) or ornizing recommunity					
(II) Deleted DDT95. Net Applicable					
(U) Related RDT&E: Not Applicable.					
(U) D. ACQUISITION STRATEGY: Not Requ	ired.				
(U) E. MAJOR PERFORMERS: This project	provides funds for	organizationa	al support (trave	al calario	s) of MCOTEA
(b) E. MAJOR PERFORMERS. This project	provides fullus for	organizationa	ii support (trave	oi, Salalie	5) OI MOOTEA.
(U) SCHEDULE PROFILE: Not Applicable.					
(O) SOMEDOLL I NOT Applicable.					

FXHIBIT R-2a RD1	Γ&E Project Justification	n		DATE:					
EXHIBIT IX Zu, IXD	Tal Troject dustilleation			DITTE.		February	2004		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NUMBE	R AND NAME		PROJECT NUI	MBER AND NAM			
7. THO THE HOLD BODDE THO THE TOTAL	I ROOM WILLE	E.VI IVONIBL			1 1100201 1101	VIDEIX 7 (14D 147 (1	*		
RDT&E, N /BA-6 Management Support	0605873M Mari	ne Corps Prog	ram Wide Sup	port	C2330 Family	of Incident Res	sponse Syster	ns (FIRS)	
								Cost to	Total
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	14.633	13.347	2.860	7.398	10.836	13.957	11.865	Cont	Con
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET I The Family of Incident Response Systems (FIRS)			services design	ed to provide fe	deral state and	d local weapons	of mass destri	uction (WMD)	incident
response forces the capabilities they need to effect									
destruction. The Family Incident Response System									
C4I, urban search and rescue, medical, and gene									
relies primarily on Commercial Off-The-Shelf/Non-									
Nuclear, Biological, and Chemical (NBC) systems									
the commercial sector and address operational ca					ab chort allows	the program to	Roop abroast t	or ciriciging to	ciliologics ii
and commercial ecolor and address operational ec	apability gapo triat oarni	or bo mor by oo	minorioa nomo	•					
(U) B. ACCOMPLISHMENTS/PLANNED PROG	PAM.								
COST (\$ in Millions)	NAWI.	FY 2	2003	EV '	2004	FY 2	005	1	
Accomplishment/Effort Subtotal Cost		0.4			300	0.5			
RDT&E Articles Qty		• • • • • • • • • • • • • • • • • • • •		•		0.0		1	
CBIRF: Research and development of a device	that senses victims through	ph debris of a col	lansed building o	r through standir	o structures sucl	as walls and doc	ors	1	
COST (\$ in Millions)	that senses victims through	FY 2			2004	FY 2		1	
Accomplishment/Effort Subtotal Cost		0.2			200	0.2			
RDT&E Articles Qtv		0.2	.00	0.2	-00	U.E	-		
CBIRF: Research and development of a hand-ho	ald broad spectrum detec	tor canable of rea	al time detection	and identification	of chamical was	fore agents (CW)	A) Toxic Indust	l rial Chamicale	Matariale
(TIC/TIM) below the Immediately Dangerous to	*		ar-time detection	and identification	i oi chemicai wai	raic agents (C W Z	A), TOXIC Illuusi	riai Chemicais/	Matchais
	Life and Health (IDLH) i							1	
COST (\$ in Millions)		FY 2			2004	FY 2			
Accomplishment/Effort Subtotal Cost		2.6	069	0.0	000	0.0	UU		
RDT&E Articles Qty]	
Electro-Chemical Activated Solution (ECASO)	L): Research and devel	opment of enviro	onmentally benigi	n, patient-safe ch	em-bio decontam	inant Electro-Che	emical Activated	Solution.	
COST (\$ in Millions)		FY 2	2003	FY 2	2004	FY 2	:005]	
Accomplishment/Effort Subtotal Cost		0.2			350	0.2		1	
RDT&E Articles Qty								1	
CBIRF: Research and development of a hand-he	eld detector capable of rea	al-time collection	detection and ide	entification of bio	ological warfare	agents (BWA) bel	low the infective	dosage level.	
COST (\$ in Millions)	1	FY 2	2003	FY :	2004	FY 2	005	1	
Accomplishment/Effort Subtotal Cost		0.8			200	0.4			
RDT&E Articles Qty			-			• • • • • • • • • • • • • • • • • • • •		1	
								1	

CBIRF: Research and development of improved respiratory protection.

EXHIBIT R-2a, RD	DT&E Project Justification	D	ATE:		
				February 2004	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	MENT NUMBER AND NAME	PROJECT	NUMBER AND NAME	
RDT&E, N /BA-6 Management Support	0605873M Marin	e Corps Program Wide Suppo		nily of Incident Response Syste	ms (FIRS)
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost		1.431	0.000	0.000	
RDT&E Articles Qty					
NANOTECH RESPONSES: Research of nan	noparticle technology, specia	fically begin evaluation and develop	oment of protocols for neutr	ralization of chem-bio agents.	
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	1
Accomplishment/Effort Subtotal Cost		2.029	2.100	0.000	
RDT&E Articles Qty					
CB MSS/Analyzer Detector: Research and de	evelopment of a Multi-Senso	or/Analyzer Detector (MSAD) and o	lata-fusion architecture for	chem-bio agents, toxic industrial che	 micals/materials (TIC/T
and toxins.		,			(2-2-2-
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost		0.076	0.120	0.000	
RDT&E Articles Qty					
CBIRF: Research and development of a patient	t tracking and following syst	tem and Mass Casualty Ventilation.			<u> </u>
1 1		ž		F)/ 0005	7
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost		0.000	0.250	0.353	
RDT&E Articles Qty	126 0	(CCA (G)			
CBIRF: Development of field rugged Gas Ch	romatograph/Mass Spectron	neter (GC/MS).			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost		0.000	0.300	0.653	
RDT&E Articles Qty					
CBIRF: Development of an improved mass ca	asualty decontamination sys	tem.		•	=
COCT (ft in Milliann)	<u> </u>	FY 2003	FY 2004	FY 2005	7
COST (\$ in Millions) Accomplishment/Effort Subtotal Cost		3.339	2.500	0.000	-
RDT&E Articles Qty		3.333	2.300	0.000	1
CB Warfare: Development of chem/bio warf.	are egent chin detector			I	_
•	are agent emp detector.				=
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost		0.200	0.010	0.000	
RDT&E Articles Qty					
CBIRF: Development and user evaluation of		Transport Vehicle (PETV) for trans	portation of incident respon	nse force and equipment in a vehicle	configured for team inte
movement command and control, and mission p	planning.				
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	7
Accomplishment/Effort Subtotal Cost		0.610	0.150	0.100	-
		0.010	0.100	0.100	1
RDT&E Articles Qtv					1

EXHIBIT R-2a, RD7	Γ&E Project Justification		DATE:			
					February 2004	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT N	JMBER AND NAME		PROJECT NUM	IBER AND NAME	
RDT&E, N /BA-6 Management Support	0605873M Marine Corps				of Incident Response Syster	ns (FIRS)
COST (\$ in Millions)		FY 2003		2004	FY 2005	
Accomplishment/Effort Subtotal Cost		0.010	0.0	000	0.000	
RDT&E Articles Qty						
CBIRF: Development of a Radiation Protective	Suit Prototype.					1
COST (\$ in Millions)		FY 2003		2004	FY 2005	
Accomplishment/Effort Subtotal Cost		0.694	0.	125	0.100	
RDT&E Articles Qty						
CBIRF: Research and development of a chem/l	bio wearable detector capable of det					-
COST (\$ in Millions)		FY 2003		2004	FY 2005	
Accomplishment/Effort Subtotal Cost		1.788	0.	550	0.254	
RDT&E Articles Qty						
CBIRF: Validation and verification of COTS to	echnologies for improve operational	capabilities of incide	ent response forces	to meet emerging	terrorist threat. Field User Evalu	ations and Studies
COST (\$ in Millions)		FY 2003	FY	2004	FY 2005	1
Accomplishment/Effort Subtotal Cost		0.000		200	0.000	1
RDT&E Articles Qty		0.000	-			
CBIRF: Heat Stress Calculator Development	l		1			ı
COST (\$ in Millions)		FY 2003	FY	2004	FY 2005	1
Accomplishment/Effort Subtotal Cost		0.000		600	0.000	
RDT&E Articles Qty						1
CBIRF: Improved PPE Testing and Qualification	n			I		J
COST (\$ in Millions)		FY 2003	FY	2004	FY 2005	1
Accomplishment/Effort Subtotal Cost		0.000		397	0.000	1
RDT&E Articles Qty						
CBIRF: Testing Support	l l		1			1
COST (\$ in Millions)		FY 2003	FY	2004	FY 2005]
Accomplishment/Effort Subtotal Cost		0.000		995	0.000	1
RDT&E Articles Qtv						1
CBIRF: C4I Architecture Development	-		· ·	I.		J
COST (\$ in Millions)		FY 2003	EV	2004	FY 2005	1
Accomplishment/Effort Subtotal Cost		0.000		000	0.000	
RDT&E Articles Qty		0.000	2.	000	0.000	1
Expeditionary Warfare Logistics Funding to be	a mayad ta NAVSEA		l .			J
Expeditionary warrare Logistics Funding to be	e moved to NAVSEA.					
TOTAL		14.633		13.347	2.860	
		14.033		13.341	2.000	
		-				

EXHIBIT R-2a, RDT&E	Project Justification		DATE:	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEME	NT NUMBER A	ND NAME	February 2004 PROJECT NUMBER AND NAME
7.1 1 10.1 10.1 10.1 10.1 10.1 10.1 1	T TOOTO WITE ELEME	in nomber,	W TO WILL	THOSE OF HOMBERTAINS TWINE
RDT&E, N /BA-6 Management Support	0605873M Marine	Corps Progran	n Wide Support	C2330 Family of Incident Response Systems (FIRS)
(U) PROJECT CHANGE SUMMARY:	FY2003	FY2004	FY2005	
(U) FY 2004 President's Budget:	16.469	1.898	2.870	
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions				
(U) Congressional Rescissions				
(U) Congressional Increases	1.442	11.6		
(U) Reprogrammings	-1.443			
(U) SBIR/STTR Transfer	-0.371			
(U) Minor Affordability Adjustment (U) FY 2005 President's Budget:	-0.022 14.633	-0.151 13.347	-0.01 2.860	
CHANGE SUMMARY EXPLANATION: (U) Funding: See Above. (U) Schedule: Not Applicable. (U) Technical: Not Applicable.				

EXHIBIT R-2a, RDT&E F	Project Justification		DA	ГЕ:					
	I=====================================					February 20	04		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER	AND NAME	P	ROJECT NUMBI	ER AND NAME			
RDT&E, N /BA-6 Management Support	0605873M Marine	Corps Prograi	m Wide Support	c	2330 Family of I	Incident Respo	nse System	s (FIRS)	
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. & Name	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY2008	FY2009	To Compl	Total Cost
(U) PMC Line (BLI# 652100) FIRS	0.000	3.422	2.804	3.293	4.409	6.759	10.543	Cont	Cont
Family of Incident Response Systems									
(U) Related RDT&E: Not Applicable.									
(U) D. ACQUISITION STRATEGY: Not Required.									
(U) E. MAJOR PERFORMERS:									
FY 02 Battelle Memorial Institute, Columbus, OH. Resear nanoparticle technology. Penn State University, PA - resear				ability System	and CBIRF. M2	Γechnologies, Inc	. West Hyann	isport, MA - re	search
FY 03 Battelle Memorial Institute, Columbus, OH. Research	ch and development ur	ban search and re	escue technology.	Penn State Un	iversity, PA; resear	rch and developn	nent of MSAD	and CB chip d	letector.
FY 04 Battelle Memorial Institute, Columbus, OH - researc	h and development urb	oan search and re	scue technology.						
FY 05 Battelle Memorial Institute, Columbus, OH - research	h and development urb	oan search and re	scue technology.						
(U) D. SCHEDULE PROFILE: Not Applicable.									

EXHIBIT R-2a, RDT&E	Project Justification	on		DATE:					
						Februa	ary 2004		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EL	EMENT NUMB	ER AND NAME						
RDT&E, N /BA-6 Management Support	0605873M Ma	rine Corps Pro	ogram Wide S	upport	C2930 Marine	Corps Phase	A Activities		
-		-						Cost to	Total
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Program
Project Cost	1.901	6.169	8.256	9.345	10.418	10.803	11.161	Cont	Cont
RDT&E Articles Qty									

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

Pre-Phase A Activities fund assessment, survey, and planning activities in support of the requirements generation system to mature, limit, clarify and define requirements before competition for resources in the Program Object Memorandum (POM) process and transition to acquisition management. This effort will complement the currently funded Marine Corps Systems Command Phase A Activities line by providing funds to pursue a limited range of items on a priority basis, examining critical issues and alternatives. Examples of activities include but are not limited to (1) development of Operational Mode Summaries, Mission Profiles, Concepts of Employment and Acquisition Objectives, (2) mapping between legacy systems and replacements, (3) examining integration and family of systems architectural issues, (4) performing Doctrine, Organization, Training, Equipment, Support, Facilities (DOTESF) assessments and providing other key support for the Universal Need Statement (UNS) process, (5) base lining POM initiatives, (6) planning requirements support of evolutionary acquisition, (7) facilitating user/advocate interaction to better understand what is needed and how it will be used, and (8) supporting the Marine Requirements Oversight Council (M

Marine Corps Combat Development Command (MCCDC) averages approximately 62 UNS requests per year addressing new requirements, of which approximately 12% require expedited processing. Quick reaction assessment and planning is likely to support requirements emerging from current real world operations. Clear Facilities, a Command Element (CE) Army Research Laboratory (ARL) item (supported by the Marine Corps Ground Combat Element (GCE)) requiring a continuum of materiel solutions (family of systems) to enable lethal clearing of a broad range of man-made structures in multiple environments/tactical situations typifies a requirement needing pre-Phase A support. Supporting activities have centered around decomposition of the mission into 460 specific tasks accompanied by development of an operational concept, objectives and key performance parameters, and warfighter prioritization. The end product will be a requirements road map. The end state will be a process and product to guide both POM and acquisition activities. These activities do not overlap/conflict with Mission Area Analysis and Analysis of Alternatives funded within the MCCDC Studies and Analysis (S&A) program, MCSC Phase A Activities, Marine Corps Warfighting Lai

(S&T) activities. Pre-phase A Activites would allow high priority requirements to move ahead in advance of funding decisions for specific programs, provide a better capability to react to emerging requirements and improve the quality of initiatives brought to the POM process. Through front-end assessment, relatively modest funding can be leveraged into significant cost and schedule savings, bringing needed capabilities to the operating forces sooner and cheaper. Each POM cycle provides examples of initiatives that are unfunded or delayed by an immature requirement or understanding of alternatives. In other cases the initiative is funded but the acquisition cycle stretches out until the requirement is better understood.

Phase A Activities consist of a series of interrelated activities in Phase A (previously known as Phase 0) of the acquisition process designed to investigate potential material solutions to validate needs, estimate program costs, support sound business decisions, correct inherent disconnects between the Programming, Planning, Budgeting System (PPBS) cycle, the Combat Development and Acquisition Management Systems, and prevent undue delays in pursuing priority requirements. The process supports Commanding General (CG), MCCDC and Commander, Marine Corps Systems

Command (COMMARCORSYSCOM) by providing funding to priority programs, thus allowing for the examination of concepts and alternatives to support an orderly transition from requirements to initiatives and initiatives to funded programs. This will permit the POM process to focus on activities of evaluating, prioritizing and integrating rather than defining and resolving raw, immature requirements. Phase A activities literally "jump start" high priority programs of the acquisition process. Furthermore, since 70% of a program's life cycle cost is determined during Phase A, this initiative will put resources to work where the return on investment (payoff) is the greatest. Typical studies conducted with Phase A activities include but are not limited to Market Surveys, Business Case Analysis (BCA), Cost as an Independent Variable (CAIV) analysis, Life Cycle Cost Estimates, Cost Comparison Analysis, Acquisition Strategies, Trade-off Analysis in lieu of an Analysis of Alternatives.

EXHIBIT R-2a, RDT&E Pro	ject Justification	DATE:		
			February 2004	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			
RDT&E, N /BA-6 Management Support	0605873M Marine Corps Program Wide S	upport	C2930 Marine Corps Phase A Activities	

MAGTF Family of Fighting Vehicles (MEFV): The MAGTF Expeditionary Family of Fighting Vehicles (MEFFV) Project will field a successor to the Marine Corps' current M1A1 Common Main Battle Tank (MBT) and the Light Armored Vehicle (LAV) Family of Vehicles (FOV). The MEFFV will provide ground combat elements (GCE) of the Marine Air Ground Task Force (MAGTF) a principle means of operational and tactical maneuver/mobility. The vehicle family will be designed specifically to complement the Advanced Amphibious Assault Vehicle (AAAV) and MV-22 aircraft in providing the capability needs of combat operations ashore within the Navy and Marine Corps capstone operational concepts of Forward From the Sea and Expeditionary Maneuver Warfare. The MEFFV will provide the MAGTF with the capability to execute combat support and select combat service support within the full spectrum of military missions from humanitarian operations to conventional conflict. The project intends to leverage technologies in combat vehicle development to develop a family of systems, replacing the two current systems as they reach End of Service life in 2015 and 2020 respectively. The MEFFV family of systems will provide the capabilities necessary to

is critical to the Marine Corps; the program is a high priority ground system acquisition initiative. To satisfy the requirements of the 21st Century Marine Warfighters, the MEFFV Project will establish a pre-systems acquisition framework specifically tailored to co-evolve leap ahead technologies with expeditionary operational concepts. A capability and systems integration architecture will use successful operational concepts from services and joint experimentation to guide technologies funded by Defense Advanced Research Projects Agency (DARPA), Office of Naval Research (ONR), Future Combat Systems (FCS) and other agencies for MEFFV application. Oversight from the Marine Corps' Ground Element Advocate will guide this Pre-Systems Acquisition framework to align institutional needs and resources with technological and operational opportunities. During the timeframe (2004-2012) MEFFV efforts are directed at concept and trade studies, analysis of multiple concepts, market research, Analysis of Alternatives, modeling and simulation, technology transition objectives, continued development of the Operational Requirements Document (ORD), development of draft performance specifications preparation of life-cycle estimates leading to a

(U) ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.901	2.457	2.529
RDT&E Articles Qtv			

Initiate and complete high priority Milestone 0/Phase A activities for Market Surveys and associated Business Case Analysis for the following programs: Reproduction System (VIC), MEFFV, Mobile Electice Power (MEP), Seaway Loggy and Deployable Vurtual Training Envir. Initiated and completed Life Cycle Cost estimates for the following programs: Elec. Maint. Support Tool (EMSST), Fire Support Programmatic Support, Automated Career Retention System and CAIV and completed Analysis of Cost Comparison Analysis for the Multi- Level Security; Completed Trade-off Analyses in lieu of Analysis of Alternatives for the Non-Lethal Payload for the Gladiator. Conduct the high priority Analysis and Life Cycle Cost Estimate projects approved in the current FY Nomination for Phase A Activities and initiate new Businesss Case Analyses/Market surveys and associated Acquisition Strategies.

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.250	0.000
RDT&E Articles Qty			

Provides for the conduct of high priority Pre-Phase A Activities for Clear Facilities Ground Weapons Locating Radar, PROFILER Meterological Measuring Set, Thermobaric Weapon, Reconnaissance Surveillance Target Acquisition, Squad Advanced Marksman, Rifle Combat Optic (analysis of Alternatives/Operational Mode Summary/Mission Profile). War Reserve Materiel Requirement Development. Radio Migration Study.

COST (\$ in Millions)	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.608	1.300
RDT&E Articles Qty			

Force Design Trades: Survey and derive roles of MAGTF mounted units in future service and Joint operational concepts. Complete the Mounted MAGTF Concept Study and Functional Area Analysis for Mounted MAGTF Operations. Begin deriving alternative MEFFV mission profiles. Initiate Functional Need Analysis.

	&E Project Justification	DATE:		
			February 2004	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NA	ME		
RDT&E, N /BA-6 Management Support	0605873M Marine Corps Program Wide	Support C2930 Marin	ne Corps Phase A Activities	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.260	0.260	
RDT&E Articles Qty				
Lethality: Initiate Functional Solution Analysis f	for lethality, specifically: Populate baseline capability per	formance needs and constraints wit	thin capability architecture database. A	ssess lethality system
technology opportunities to assess their maturity	and impact on effectiveness. Assess target acquisition sy	ystems and targeting methodologies	s.	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.200	0.210	
RDT&E Articles Qty		0.200	0.2.0	
	Solution Analysis for propulsion/mobility, specifically:	work on propulsion/mobility roadn	nan (emphasis on expeditionary) Asse	ss design architecture with
•	ure Combat Systems (FCS). Monitor Electric Warship te			•
inglier component commonances and assess r ac	are combat bystems (Feb). Womtor Electric Warship to	cimical developments for compone	on commonanty opportunities (auxinus	103).
000T (0: M:III:)	FV 0000	FV 0004	FV 0005	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	0.000	0.175	0.200	
· · · · · · · · · · · · · · · · · · ·	ion Analysis for active survivability, specifically: Assess	ECC active must action to describe	o for future evaluitation. Constant DO	D tanhandarian to MEEEU
• '	* * *		•	•
concepts, active survivability objective roadmap	Explore active survivability initiatives through Service	and joint games and experiments.	Continue active survivability risks study	y.
0.007 (0.1.14)	EV 2000	F)/ 0004	F)/ 0005	
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.120	
RDT&E Articles Qty				and the second
	tion Analysis for passive survivability, specifically: Conc		base/appliqué armor materials versus e	mergent threat munitions. The
assessment will also investigate embedded senso	or technology development/ballistic protection versus sign	ature management initiatives.		
0007 (0: 14:11:)	E) (0000			
COST (\$ in Millions)	FY 2003	FY 2004	FY 2005	
	0.000	FY 2004 0.369	FY 2005 0.708	
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty	0.000	0.369	0.708	
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty		0.369	0.708	ulations approach, determine
Accomplishment/Effort Subtotal Cost RDT&E Articles Qty System Integration: Initiate framework for Syste	0.000	0.369 n capability (functional) architectur	0.708 e database. Develop modeling and sim	• •
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EXHIBIT R-2a, RDT&E Project Justification			DATE	DATE:	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NI IMPED	ANDNAME	February 2004	
RDT&E, N /BA-6 Management Support	0605873M Marin			t C2930 Marine Corps Phase A Activities	
(U) PROJECT CHANGE SUMMARY:					
(e) I ROSECT CHAINGE SCHAMART.	FY2003	FY2004	FY2005		
(U) FY 2004 President's Budget:	2.451	6.246	8.283		
(U) Adjustments from the President's Budget:					
(U) Congressional/OSD Program Reductions					
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	-0.132				
(U) SBIR/STTR Transfer	-0.064				
(U) Minor Affordability Adjustment	-0.354	-0.077	-0.027		
(U) FY 2005 President's Budget:	1.901	6.169	8.256		
CHANGE SUMMARY EXPLANATION:					
(U) Funding: See Above.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					
(II) C. OTHER RECORDAN ELINDING CHMMARY.	lat Appliaghla				
(U) C. OTHER PROGRAM FUNDING SUMMARY: N	Not Applicable				
(U) Related RDT&E: Not Applicable.					
(U) D. ACQUISITION STRATEGY: Not Required					
(U) E. MAJOR PERFORMERS:					
FY 04-05 Expeditionary Force Development Center, 0	Quantico VA - Develo	on Mission Are	a Analysis and Su	pporting Documents - Projected 11/03: 11/04	
FY 04-05 Marine Corps Warfighting Lab (MCWL), Qu		•	-	• • •	
				esearch Lab, Tank Automotive Research, Development and	
Engineering Center (TARDEC), Warren, MI, Universit	=		=	·	
Engineering Center (TARDEC), Walter, Mi, Oniversit	y or rexas montale it	or Advanced Te	echhology (IAT), A	ustill, 17 ett., Frojected 02/04, 02/03	
FY03-05 Major Performers to be determined based or	n the Phase A activity	/.			
(U) D. SCHEDULE PROFILE: Not Applicable.					