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EXHIBIT R-2, RDT&E Budget Item Justification						DATE:				
						February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT (PE) NAME AND NO.							
RDT&E, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communications Sys							
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Total PE Cost	114.659	196.004	235.722	267.268	216.991	222.829	108.814	89.932	Cont	Cont
C2270 Command Post Systems	24.853	27.943	9.090	7.980	11.820	9.954	8.800	9.243	Cont	Cont
C2272 Intelligence C2 Systems	16.862	18.352	17.616	32.424	27.747	21.017	17.465	15.565	Cont	Cont
C2273 Air Operations C2 Systems	21.930	65.142	95.971	106.936	79.117	106.415	31.574	20.324	Cont	Cont
C2274 Warfare Systems	8.575	7.987	9.727	5.655	5.468	4.562	4.253	4.633	Cont	Cont
C2275 Radio Systems	0.000	0.584	8.881	8.698	4.878	4.337	4.226	3.548	Cont	Cont
C2276 Communications Switching & Control Systems	1.427	4.513	6.381	3.815	4.675	3.921	4.042	3.428	Cont	Cont
C2277 System Engineering & Integration	11.772	10.736	8.907	7.991	9.597	8.768	9.043	9.204	Cont	Cont
C2278 Air Defense Weapons Systems	11.156	28.274	23.428	9.596	6.469	11.127	10.577	5.827	Cont	Cont
C2315 Training Devices/Simulators	13.073	8.580	12.423	8.317	8.434	5.651	4.293	4.446	Cont	Cont
C2510 MAGTF CSSE & SE	5.011	4.376	23.488	18.094	10.643	8.146	8.431	8.634	Cont	Cont
C3099 Radar Systems	0.000	0.000	19.810	57.762	48.143	38.931	6.110	5.080	Cont	Cont
C9279 Defense Emergency Response Fund (DERF)	0.000	12.490	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont
C9276 Radar and Marine Corps Ship Maneuver	0.000	7.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.027
Quantity of RDT&E Articles										

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EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT (PE) NAME AND NO. 0206313M Marine Corps Communications Sys		
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element provides funding to develop the command and control (C2) support and information infrastructures for the Fleet Marine Force and supporting establishment. Doctrinally, the C2 support system and the information infrastructure form two parts of a triad of capabilities which permits command and control systems to be transformed into a complete operating system. The third element of the triad is command and control organization and is not covered in this program element. USMC command and control is divided into seven functional areas and one supporting functional area as follows: intelligence C2, fire support C2, air operations C2, radio systems C2, combat service support C2, warfare C2, radar systems C2, and C2 support (information processing and communications). Within this program element, subprojects have been grouped by C2 functional area for more efficient planning. Air defense weapons systems have been added to facilitate planning and a separate project is used for systems assigned to the supporting establishment. Subprojects which support the commander's decision processes have been collected into the Command Post Systems project since these systems must work in close cooperation to ensure effective C2 of Marine Air Ground Task Forces. This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.				
B. PROGRAM CHANGE SUMMARY				
	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) FY 2003 President's Budget:	119.716	174.664	163.920	96.349
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions	-0.325	-12.46	-1.216	-10.928
(U) Congressional Rescissions				
(U) Congressional Increases		33.800		
(U) Reprogrammings	-2.028		73.052	181.832
(U) SBIR/STTR Transfer	-1.853			
(U) Minor Affordability Adjustment	-0.851		-0.034	0.015
(U) FY 2004 President's Budget:	114.659	196.004	235.722	267.268
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

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EXHIBIT R-2a, RDT&E Project Justification								DATE:		February 2003	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Sys				C2270 Command Post Systems					
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost		24.853	27.943	9.090	7.980	11.820	9.954	8.800	9.243	Cont	Cont
RDT&E Articles Qty											
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:											
(U) Systems assigned to this project are to be used by commanders and their staffs to process, fuse, and tailor information to assist decision-making and enhance situational awareness. They will integrate and share information from sources both internal and external to the Marine Air-Ground Task Force (MAGTF) to provide a shared understanding of the battlespace. Maneuver C2 is the executive layer of decision support that retrieves and fuses information from functional areas. It provides an integrated representation of the battlespace or a specific area of concern. The subprojects below develop systems that report unit status and location to the Tactical Combat Operations (TCO) System, and disseminate maneuver information throughout the battlespace. 1. MAGTF Software Baseline (MSBL). Decision support integrates information from the seven Command and Control (C2) functional areas and the support function. The information is tailored to support the users' specific needs. As a result of the MAGTF C4I Baseline subproject, an integrated migration strategy is being incorporated into the MAGTF software baseline, which will be common across and used by all MAGTF C4I programs. 2. The Tactical Command Operations (TCO) will provide systems to the command post which support Maneuver C2. Maneuver C2 is the executive layer of decision support that pulls and fuses information from other functional areas. 3. The Intelligence Analysis System (IAS) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence; it ensures that tactical intelligence is tailored to meet specific mission requirements. A Marine Expeditionary Force (MEF) IAS variant will also process signal intelligence. Funding for this program has moved to Project C2272 within this Program Element (PE). 4. Advanced Field Artillery Tactical Data System (AFATDS) will consist of fire support command and control software fielded on Marine Corps common hardware. AFATDS will provide the MAGTF with an automated ability to rapidly integrate all supporting arm assets into maneuver plans. 5. The Unit Operations Center (UOC) development efforts focus on: Cognitive Task Analysis (CTA); enhanced ergonomic physical design; evaluation of advanced multimedia hardware; integration and networking with advanced development communication systems; and battlefield visualization concepts. Unit Operations Center (UOC) will provide a facility and components for the integration of current and planned battlefield automation systems. UOC is a "system of systems" designed to optimize the positioning, interaction, and flow of information among the various staff agencies (G-2, G-3, Operations Directorate, etc) and their automated information systems and between the unit higher, adjacent or subordinate units or headquarters. The Marine Corps deploys Component/Joint Task Force (JTF/Marine Air Ground Task Force (MAGTF) command elements throughout the world to fulfill operational requirements, often in joint/combined forces arenas. The UOC is designed in garrison and tactical versions. The tactical version is called the Combat Operations Center (COC), which is an outgrowth of the integrated COC (ICOC), COC-Interim (COC(I)), and the Enhanced COC (ECOC) developments over the last two years. The garrison version is called the Command Center (CC). Funding for this program has been moved to Project C2273, PE 0206313 in FY04 and beyond. 6. GCCS Integrated Imagery and Intelligence (GCCS-I³) is a joint program that is designed to enhance the operational commanders' situation awareness and track management through the use of a standard set of integrated, linked tools, and services that maximize commonality and interoperability across the tactical, theater, and national communities. GCCS-I³ operates in joint and service specific battlespace and is interoperable, transportable, and compliant with the DoD mandated Common Operating Environment (COE). 7. The Data Automated Communications Terminal (DACT) will extend situational awareness to echelons below the battalion level within the Marine Corps. The DACT will receive, store, retrieve, create, modify, transmit and display map overlays, operational messages/reports, and position information via tactical radios, networks, and/or wire lines. A phased approach for full functionality fielding consists of hardware/software upgrades and enhancements that allow interoperability with other C4I systems. 8. Marine Corps Training, Exercise, and Employment Plan (MCTEEP) is a Windows-based, Marine Corps developed scheduling tool, identified in the Commandant's Planning Guidance (CPG) to standardize the "TEEP" process. MCTEEP software was first fielded in July 1995 to every G-3/S-3 in the operating forces. Funding for this program has moved to Project C2906 within this PE in FY04 and beyond. 9. Single Integrated Air Picture (SIAP) is the product of fused, common, continual, coherent, unambiguous tracks of airborne objects of interest within the surveillance area. The SIAP Systems Engineer Task Force is an ad hoc Joint effort to investigate, research and produce the most common effective means for producing a SIAP. Funding for this program has been moved to Project C2273 in FY04 and beyond.											

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems		
(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.060	0.000	0.000	0.000
RDT&E Articles Qty				
TCO: Develop and test new Client Software.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.518	0.150	0.160	0.170
RDT&E Articles Qty				
TCO: Program management and engineering support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.314	0.180	0.195
RDT&E Articles Qty				
TCO: Server testing and integration to develop additional functional capabilities.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.160	0.125	0.130
RDT&E Articles Qty				
TCO: Integrate software changes into new system and perform testing.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.334	0.373	0.288
RDT&E Articles Qty				
TCO: Testing and validations of advanced concepts and technologies.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.899	0.376	0.000	0.000
RDT&E Articles Qty				
IAS MOD: Critical improvements to GCCS-I3 Intelligence Support software for USMC requirements.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.089	0.000	0.000	0.000
RDT&E Articles Qty				
IAS MOD: Support of integration facility.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.381	0.000	0.000	0.000
RDT&E Articles Qty				
IAS MOD: Interoperability assessments and software improvements .				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.312	0.000	0.000
RDT&E Articles Qty				
IAS MOD: Software modifications to support USMC joint interoperability.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.300	0.000	0.000
RDT&E Articles Qty				
IAS MOD: Perform IOS Client Hardware Trade Study.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.255	1.350	1.800	1.850
RDT&E Articles Qty				
MAGTF C4I BASELINE: Build, test, field and support DII COE compliant versions of GCCS-M in support of the six warfighting functions. This effort focuses primarily on the integration, inclusion and incorporation of Fire Support, Maneuver and Intel capabilities.				

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2270 Command Post Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.451	0.425	0.460	0.475
RDT&E Articles Qty				
MAGTF C4I BASELINE: Program Management Support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.671	0.350	0.375	0.375
RDT&E Articles Qty				
MAGTF C4I BASELINE: Conduct disciplined risk management, requirements tracking and systems engineering and analysis efforts.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	2.118	1.387	1.920	1.534
RDT&E Articles Qty				
MAGTF C4I BASELINE: Development of MSBL Client in MS Windows environment (C2PC).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.030	0.750	0.350	0.750
RDT&E Articles Qty				
MAGTF C4I BASELINE: Development of WIN NT Fire Support, Force Protection, and communications clients.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.000	1.300	1.166	0.850
RDT&E Articles Qty				
MAGTF C4I BASELINE: Development of client for foot mobile Marines in Windows CE environment per user requested improvements.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.575	0.000	0.000	0.000
RDT&E Articles Qty				
AFATDS: Final development and testing of AFATDS V6.3.2 software. Develop increased interoperability with all other MAGTF C4I automated systems. Increase software effectiveness with, and in support of Marine Corps fire support systems.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.650	0.812	0.000	0.000
RDT&E Articles Qty				
AFATDS: Development of AFATDS V7 software. Simplify human factors interface to allow easier initial and sustainment training. Increase functionality with Marine Corps fire support systems (including Towed Artillery Digitization.) Enhance air mission processing capabilities of system. Further enhance human factors interface to provide simple and familiar view to users.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.400	0.663	0.000	0.000
RDT&E Articles Qty				
AFATDS: Research and testing of new hardware platform for system. Enhancements.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.558	0.203
RDT&E Articles Qty				
AFATDS Program management and engineering support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.463	1.528	0.043	0.000
RDT&E Articles Qty				
GCCS-I3: Operational system development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	9.382	0.891	0.000	0.000
RDT&E Articles Qty				
UOC: Engineering and manufacturing development effort including design of production representative modules.				

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2270 Command Post Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.090	0.612	0.000	0.000
RDT&E Articles Qty				
UOC: Operational Testing.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.640	0.850	0.000	0.000
RDT&E Articles Qty				
UOC: Program Management support. Funding for this program has been moved to Project C2273 in PE 0206313 in FY04 and beyond.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.807	0.000	0.000	0.000
RDT&E Articles Qty				
DACT: Dismounted DACT Prototype development and testing.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.946	0.000	0.000	0.000
RDT&E Articles Qty				
DACT: Dismounted DACT Security Accreditation, Develop software recovery solution.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.537	0.989	0.692
RDT&E Articles Qty				
DACT: Dismounted DACT Software development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.100	0.100
RDT&E Articles Qty				
DACT: Dismounted DACT FMF test support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.100	0.156
RDT&E Articles Qty				
DACT: Dismounted DACT Program Management Support				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.040	0.152	0.000	0.000
RDT&E Articles Qty				
DACT: Prototype/Internal SAASM GPS development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.060	0.212	0.000	0.000
RDT&E Articles Qty				
DACT: Internal 188-220 modem development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	2.522	0.000	0.000
RDT&E Articles Qty				
DACT: Development, integration, testing and fielding of the Tank and DACT Vehicle Mount.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.372	0.212
RDT&E Articles Qty				
DACT: Dismounted DACT Technology Insertion (Wireless comms).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.171	0.000	0.000	0.000
RDT&E Articles Qty				
MCTEEP: Development of new software enhancements including 1) Database Evaluation and Conversion, 2) creation of Situation Report (SITREP) and Operational Summary (OpSum) Templates for enhanced Data Entry and 3) Implementation in MCDMT of Common Marine Corps Data Elements.				

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APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2270 Command Post Systems	
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		0.157	0.000	0.000	0.000
RDTE Articles Qty					
MCTEEP: Program management support.					
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		0.000	0.338	0.019	0.000
RDTE Articles Qty					
MCTEEP: Development, integration, testing and fielding of selected MCTEEP Software upgrades to enhance the capabilities of MCTEEP. The prospective SW modifications include; 1) incremental upgrades to accomplish progressively web enabling higher levels of DII / COE compliance, 2) increased data sorting, correlation and filtering capabilities to further facilitate rapid responses to complex information requests, 3) transition from the current Sybase licensed data-base management system (DBMS) to a DBMS having better long term supportability.					
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		0.000	2.335	0.000	0.000
RDTE Articles Qty					
SIAPS: Implement JROC approved Block 0 changes in the TAOM.					
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		0.000	8.783	0.000	0.000
RDTE Articles Qty					
SIAPS: Service System Engineering support to SIAP SE TF. Funding for this program has been moved to Project C2273, PE 0206313 in FY04 and beyond.					
(U) Total \$		24.853	27.943	9.090	7.980

(U) PROJECT CHANGE SUMMARY:					
	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
(U) FY 2003 President's Budget:	24.755	29.594	22.510	19.554	
(U) Adjustments from the President's Budget:					
(U) Congressional Program Reductions					
(U) Congressional/OSD Program Reductions	-0.066	-1.651	0.620	-0.282	
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	0.853		-14.044	-11.315	
(U) SBIR/STTR Transfer	-0.387				
(U) Minor Affordability Adjustment	-0.302		0.004	0.023	
(U) FY 2004 President's Budget:	24.853	27.943	9.090	7.980	
CHANGE SUMMARY EXPLANATION:					
(U) Funding: Change in funding for FY04 and FY05 is due to the realignment of programs within the Marine Corps					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					

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APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDTE&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Sys				C2270 Command Post Systems				
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
PMC BLI# 463100 TCO	0.550	0.000	0.391	0.391	0.191	0.390	0.390	0.190	Continuing	Continuing
PMC BLI# 474900 IAS MOD	1.570	1.315	1.347	1.354	1.375	1.398	1.445	1.474	Continuing	Continuing
PMC BLI# 463100 AFATDS	2.609	0.000	0.674	0.173	4.234	8.141	8.982	3.296	Continuing	Continuing
PMC BLI# 463100 UOC	0.000	22.518	0.015	0.000	0.000	0.000	0.000	0.000	0.000	22.533
PMC BLI# 419000 UOC	0.000	0.000	29.225	36.045	41.292	124.663	151.987	147.525	Continuing	Continuing
PMC BLI# 463100 DACT	13.862	6.366	4.183	0.300	0.300	0.200	0.300	0.300	Continuing	Continuing
(U) Related RDTE&E:										
(U) PE 0301301L (Department of Defense Intelligence and Information Systems/Military Intelligence Integrated Data System/Integrated Data Base I and II) Defense.										
(U) Navy Tactical Flag Communication and Control System.										
(U) D. ACQUISITION STRATEGY:										
(U) TCO: Contracting is via General Services Administration schedules with various vendors and is for software maintenance and COTS evaluation and integration. Performance base reviews are conducted quarterly by the PMO.										
(U) MSBL: Funds applied to the NGIT contract through ITM2K are on a Time and Materials Contract. Funds to NGIT, Orlando, FL for the SPEED contract are on a Firm Fixed Price Contract; SPAWAR Systems Center, Charleston. Fire Support client software development performed through Cost Plus Fixed Fee contract with Raytheon through Army CECOM, Ft. Monmouth, NJ.										
(U) AFATDS: AFATDS is a Cost Plus Award Fee contract through Army CECOM, Ft. Monmouth, N. J. R&D efforts will be a combined effort between the software developer (Raytheon), the Army PM and the USMC of software enhancements for the next planned versions of AFATDS (V6.3.2 and V7).										
(U) DACT: The Program develops software and hardware for two operational domains. The mounted DACT is a Command Control Situational Awareness device that will be installed in various tactical vehicles at the battalion and below levels with a special vehicle mounting kit, also being developed.										
(U) MCTEEP: Competitively award a cost plus fixed fee contract in 4th Qtr 02. R&D component of this contract will be to enhance existing MCTEEP S/W version 4.0 or to further develop the capabilities of the MCTEEP variant, the M. C. Database Management Tool.										
(U) IAS: The IAS program uses existing Government contracts for hardware and software development and integration. The system is comprised primarily of Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment.										
(U) SIAP: Systems Engineering effort that will be utilized to reduce risk and increase interoperability for legacy and future C4ISR systems.										
(U) GCCS I3: The acquisition of components (software/hardware) for the GCCS I3 initiative will maximize the use of existing COTS, GOTS, NDI, and GFE equipment. The GCCS I3 initiative will be accomplished in collaboration with Millennium Technologies Corporation and Computer Science Corporation. Maintenance support will be managed by MARCORLOGBASES and those contractors listed above. This strategy accomplishes several goals: procure and field equipment effectively and efficiently, reduce logistics support, and reduce operational maintenance support.										
(U) UOC: The UOC COC is a Competitively Awarded Contract (cost type) for design and FP production options.										

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		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTE&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems
E. Major Performers: TACTICAL COMBAT OPERATIONS (TCO) FY 02 MARCORSYSCOM (MCSC), QUANTICO, VA. Provide funds to NORTHROP GRUMMAN INFORMATION TECHNOLOGY, Quantico, VA for Testing and Validation of software. Dec 01. FY 03 SPAWAR, CHARLESTON, S.C. Provide funds to EMA, INC, Charleston, S.C. for Testing and Validation of Advanced Server Concepts. Dec 02. FY 04 SPAWAR, CHARLESTON, S.C. Provide funds to EMA, INC, Charleston, S.C. To develop additional functional capabilities, integrate software changes into new system, and perform testing. Dec 03. FY 05 SPAWAR, CHARLESTON, S.C. Provide funds to EMA, INC, Charleston, S.C. for Testing and Validation of new workstation concept, integrate software changes into new system, and perform testing. Dec 04. MAGTF SOFTWARE BASELINE (MSBL) FY 02 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), San Diego, CA. Software development: C2PC and C2CE. SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Software integration, building, testing and fielding MSBL. RAYTHEON (via Army CECOM) Ft. Monmouth, NJ. Fire Support Client software development, testing and integration. FY 03 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), San Diego, CA. Software development: C2PC and C2CE. Estimated contract award date: Dec 03. SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. Estimated contract award date, Dec FY 03. RAYTHEON (via Army CECOM) Ft. Monmouth, NJ. Fire Support client software development, testing and integration. Estimated contract date Dec FY 03. FY 04 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), San Diego, CA. Software development C2PC. Estimated contract award Dec FY 04. SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. Estimated award date Dec FY 04. RAYTHEON (via Army CECOM) Ft Monmouth, NJ. Fire Support client software development, testing, and integration. Estimated contract date Dec FY 04. FY 05 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), San Diego, CA. Software development: C2PC and C2CE. Estimated award Dec FY 05. SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR) Charleston, SC. Software integration, building, testing and fielding MSBL. Award Dec FY 05. RAYTHEON (via CECOM) Ft. Monmouth, NJ. Fire Support Client software development, testing and integration. Estimated contract award date Dec FY 05. ADVANCED FIELD ARTITLEY TACTICAL DATA SYSTEM (AFATDS) FY 03 RAYTHEON SYSTEMS, Ft. Wayne IN. Develop and test software. Award Dec FY03. FY 03 MCOTEA, Quantico VA. Test V6.3.2 software. Award Dec FY 03. FY 03 CEOS. TBD. Program Support. Dec FY 03. FY 04 TBD. Program Support. FY 05 TBD. Program Support. DATA AUTOMATED COMMERCIAL TERMINAL (DACT) FY 03 TANKS, Development of Tank Vehicle Mount - to include testing, Dec 02. FY 04 NORTHROP GRUMMAN, Software Development, Jan 03. FY 04 TECHNOLOGY INSERTION, Wireless communication, Vendor TBD, Feb 03. FY 05 NORTHROP GRUMMAN, Software Development, Jan 04.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2270 Command Post Systems
E. Major Performers (Continued): MARINE CORPS TRAINING EXERCISE EMPLOYMENT PLAN (MCTEEP) FY 02 STANLEY ASSOCIATES, INC., Woodbridge, VA. Development of new software enhancements. Aug 02. FY 03 STANLEY ASSOCIATES, INC., Woodbridge, VA. Development, integration, testing and fielding of selected MCTEEP Software upgrades to enhance the capabilities of MCTEEP. Nov 02. INTELLIGENCE ANALYSIS SYSTEM (IAS) FY 02 NSWC, CRANE,IN. Support to GCCS I3 Software to USMC Requirements. SPAWAR SSSC, Charleston, VA., Interoperability assessment and in support of integration facility. FY 03 NSWC, CRANE,IN. Critical Improvements to GCCS I3 software for program requirements and software mods. SPAWAR SSSC, Charleston, VA., Joint Interoperability, perform IOS Client and Server Trade Study. GLOBAL COMMAND CONTROL SYSTEM (GCCS I3) FY 02 SSSC, Charleston, S.C. Funds provided for Program Engineering Services and support to define, develop and interoperability with GCCS I3 related software and hardware. FY 02 NAVY SYSTEMS MANAGEMENT ACTIVITY (WSMA), Arlington, VA. Funds provided for Engineering and Program Management and technical analysis support. FY 03 SSSC, Charleston, S.C. Funds provided for Program Engineering Services and Support to define, develop and interoperability with GCCS I3 related software and hardware. UNIT OPERATIONS CENTER (UOC) FY 02 NORTHROP GRUMMAN, Stafford, VA, Program support, Oct 01. FY 02 GENERAL DYNAMICS, Scottsdale, AZ. Statement of Objectives for Combat Operations Center and Engineering Manufacture Development. May 02.		

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Exhibit R-3 Cost Analysis								DATE: February 2003						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communications Sys					C2270 Command Post Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
UOC	WR	SPAWAR	4.891	1.225	01/02	0.702	01/03					0.000	6.818	
UOC	WR	JSC		0.065	01/02							0.000	0.065	
UOC	WR	MCSC, Quantico, VA	1.412	0.657	01/02	0.320	01/03					0.000	2.389	
UOC	RCP	General Dynamics, Scottsdale, AZ		7.000	03/02	0.706	01/03					0.000	7.706	
TCO	RCP	MCSC, Quantico, VA		0.518	02/02							0.000	0.518	
TCO	WR	SPAWAR, Charleston, SC	1.270			0.808	12/02	0.678	12/03	0.613	12/04	1.921	5.290	
MAGTF C4I BASELINE	RCP	SSC, Charleston, SC	6.255	1.255	02/02	1.350	12/02	1.804	12/03	1.667	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Raytheon, Indianapolis, IN	2.450	0.600	02/02	0.750	12/02	0.350	12/03	0.750	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, San Diego, CA	9.123	2.118	02/02	1.237	12/02	1.766	12/03	1.542	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Aquia, VA	4.350	1.000	02/02	1.300	12/02	1.166	12/03	0.850	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Orlando, FL	1.530	0.430	04/02	0.000		0.000		0.000		Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Aquia, VA	1.692	0.326	10/02	0.425	12/02	0.460	12/03	0.475	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	WR	MCTSSA, Camp Pendleton, CA	0.600	0.125	12/02	0.150	12/02	0.150	12/03	0.175	12/04	Cont.	Cont.	
MAGTF C4I BASELINE	RCP	Northrop Grumman, Aquia, VA	1.771	0.671	12/02	0.350	12/02	0.375	12/03	0.375	12/04	Cont.	Cont.	
AFATDS	MIPR	USA, Ft. Sill, OK	1.562	0.090	02/02	0.175	12/02					Cont.	Cont.	
AFATDS	C/FFP	CECOM, Ft. Monmouth,NJ	1.218	0.640	02/02	0.479	12/02	0.558	12/03	0.203	12/04	Cont.	Cont.	
AFATDS	CPFF/MIPR	USA, CECOM	1.445	0.525	02/02	0.451	12/02					Cont.	Cont.	
AFATDS	WR	MCSC, Quantico, VA		0.020	02/02	0.020	12/02					Cont.	Cont.	
AFATDS	CPFF/MIPR	CECOM, Ft. Monmouth,NJ	0.675	0.350	02/02	0.350	12/02					Cont.	Cont.	
GCCS-13	WR	MTC		0.750	08/02	1.000	11/02					0.000	1.750	
GCCS-13	MIPR	NSA				0.032	12/02					0.000	0.032	
GCCS-13	WR	AIS				0.100	11/02					0.000	0.100	
GCCS-13	WR	MTC				0.396	04/02	0.043	12/03			0.000	0.396	
DACT	TM	Raytheon, Fort Wayne, IN	0.950	0.946	02/02							Cont.	Cont.	
DACT	RCP	SSC, Charleston, SC	0.882	0.807	02/02							Cont.	Cont.	
DACT	TM/MIRP	Booz-Allen, Ft. Monmouth, NJ	1.185	0.060	02/02	0.537	12/02	0.220	11/03	0.368	11/04	Cont.	Cont.	
DACT	TM/MIPR	Booz-Allen, Ft. Monmouth, NJ	0.344	0.040	02/02	0.152	12/02	0.152	11/03			Cont.	Cont.	
DACT	FFP	NGIT, San Diego CA	1.793			0.212	11/02	0.989	11/03	0.592	11/04	Cont.	Cont.	
MCTEEP	C/CPFF	Northrop Grumman, Aquia, VA		0.157	02/02	0.000						0.000	0.157	
MCTEEP	C/CPFF	Stanley Assoc		0.171	08/02							0.000	0.171	
MCTEEP	C/CPFF	TBD				0.338	11/02	0.019	11/03			0.000	0.357	
SBIR												0.000	0.000	
Subtotal Product Dev			45.398	20.546		12.340		8.730		7.610		Cont.	Cont.	
Remarks:														

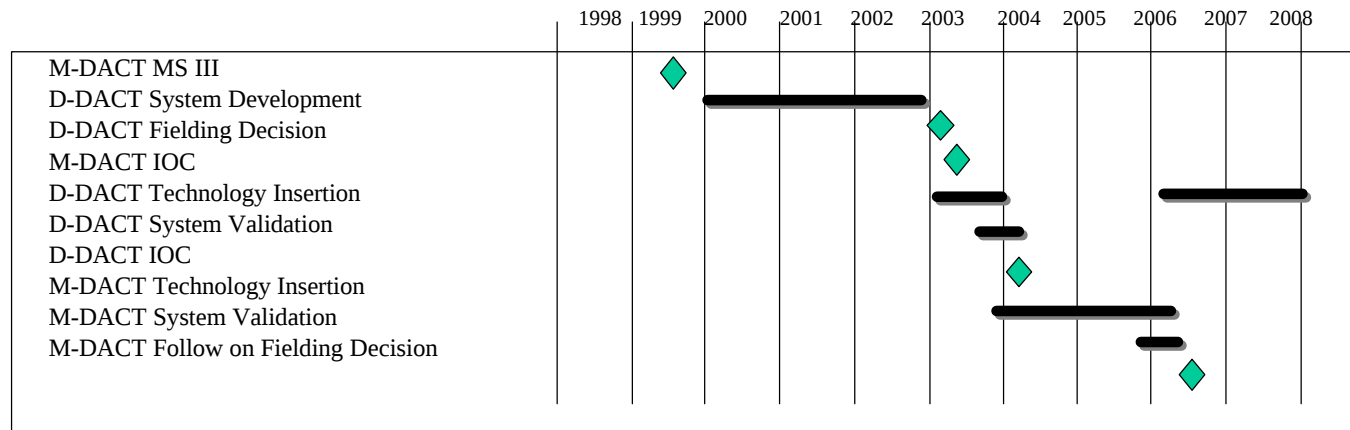
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Exhibit R-3 Cost Analysis								DATE: February 2003						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communications Sys					C2270 Command Post Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
DACT	CFFP	Program Support, (TBD)	0.300			0.100	11/02	0.100	11/03	0.100	11/04	Cont.	Cont.	
DACT INTEGRATION	TBD	TBD				2.522	12/02					Cont.	Cont.	
SIAP	RCP	CECOM, FT. MONMOUTH, NJ				1.200	02/03					0.000	1.200	
SIAP	RCP	MCSC, QUANTICO, VA				5.883	02/03					0.000	5.883	
SIAP	RCP	GSA, BREMERTON, WA				1.700	02/03					0.000	1.700	
SIAP	RCP	MCSC, QUANTICO, VA				2.335	02/03					0.000	2.335	
GCCS-I3	RCP	NSWC, CRANE		0.070	03/02							0.000	0.070	
GCCS-I3	RCP	AIS		0.072	03/02							0.000	0.072	
Subtotal Support			0.300	0.142		13.740		0.100		0.100		Cont.	Cont.	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TCO	RCP	MCTSSA, Camp Pndltn, CA	0.201	0.060	02/02	0.150	02/03	0.160	02/04	0.170	02/05	0.000	0.741	
IAS Mod	WR	NAVSEA, Crane	0.373	0.381	10/01	0.312	10/02					0.300	1.366	
IAS Mod	RCP	MCTSSA	0.147	0.089	02/02	0.000						0.100	0.336	
IAS Mod	RCP	SPAWAR, Charleston	0.136	0.899	02/02	0.676	11/02					0.449	2.160	
MSBL	RCP	MCOTEA, Quantico, VA	1.683									Cont.	Cont.	
DACT	MIPR	FMF, MCB Camp Pendleton (I MEF)	0.300			0.100	12/02	0.100	12/03	0.100	12/04	Cont.	Cont.	
UOC	RCP	MCOTEA, Quantico, VA		0.090	12/02									
Subtotal T&E			2.840	1.519		1.238		0.260		0.270		Cont.	Cont.	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
UOC	IDIQ	Logicon	3.396	1.640	01/02	0.525	01/03	0.000				0.000	5.561	
UOC	FFP	Mevatec,	0.064	0.435	01/02	0.100	01/03	0.000				0.000	0.599	
GCCS-I3	RCP	NSMA, ARLINGTON, VA		0.571	08/02									
Subtotal Management			3.460	2.646		0.625		0.000				0.000	6.731	
Remarks:														
Total Cost				24.853		27.943		9.090		7.980		Cont.	Cont.	

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EXHIBIT R-4/4a, Schedule Profile/Detail			DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems	

DACT Macro Program Schedule



<u>Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>										
(U) RDT&E,N C2270	1.853	3.623	1.561	1.160	0.756	0.664	0.583	0.599	Continuing	Continuing
(U) PMC BLI# 463100, DACT	13.862	6.366	4.183	0.300	0.300	0.200	0.300	0.300	Continuing	Continuing

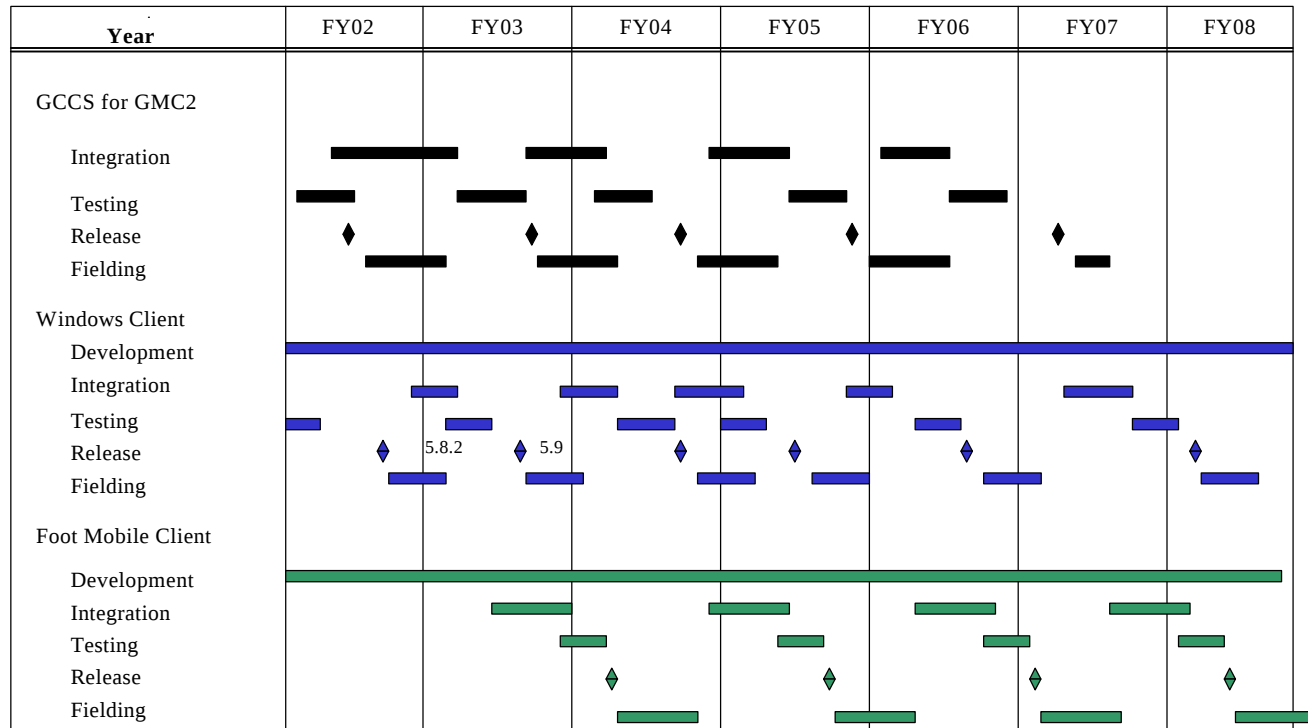
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EXHIBIT R-4/4a, Schedule Profile/Detail			DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems	

MSBL PROGRAM SCHEDULE



<u>Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(APPN, BLI #, NOMEN)										
(U) RDT&E,N	6.525	5.562	6.071	5.834	5.699	5.811	5.917	6.038	Continuing	Continuing

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems					C2272 Intelligence C2 Systems				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY2009	Cost To Complete	Total Program
Project Cost	16.862	18.352	17.616	32.424	27.747	21.017	17.465	15.565	Cont	Cont
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
(U) Intelligence Command and Control (C2) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence. It ensures that all-source tactical intelligence is tailored to meet specific mission requirements. The systems below collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination. 1. Tactical Exploitation of National Capabilities (TENCAP) is a program designed to enhance the ability of tactical Marine Corps forces to exploit the capabilities of national intelligence-gathering systems. Congressionally directed, it requires close liaison with the intelligence community and involves complex and highly-sensitive activities. 2. The Topographic Production Capability (TPC) is an advanced Geospatial Information System, which employs commercial hardware and software to provide the framework data for the common battlefield visualization by producing geospatial intelligence products in digital format and limited hardcopy map products. 3. The Joint Surveillance Target Attack Radar (JSTARS) connectivity program will develop software which will allow the JSTARS Moving Target Indicator (MTI), Fixed Target Indication (FTI) and Synthetic Aperture Radar (SAR) Data to be passed from the JSTARS Common Ground Station (CGS) to lower echelons within the MAGTF. Once the Connectivity Software has been developed, a requirement for a JSTARS CGS software upgrade is anticipated under Joint Program Office Pre-Planned Product Improvement (P3I) initiative. 4. The Coastal Battlefield Reconnaissance and Analysis (COBRA) system is a passive multispectral sensor system capable of operating in a Manned Aircraft and an Unmanned Aerial Vehicle (UAV). Imagery recorded on the UAV or disseminated via data link is analyzed by the COBRA ground station. Ground station algorithm processing provides near real-time automatic minefield detection with Differential Global Positioning System (DGPS) location accuracy. 5. The JSIPS-TEG is a highly mobile imagery ground station designed to receive and process tactical imagery in support of the MEF/MAGTF commander. This Common Imagery Ground Surface System (CIGSS) is an integral component of the USMC Distributed Common Ground Station (DCGS) architecture that enables the MEF/MAGTF commander to remain interoperable with other Joint and USMC C4I systems. The system provides the capability to receive, process, store, exploit (to include PGM targeting support), and disseminate national theater, and tactical imagery, as well as providing interoperability with the Army's Tactical Exploitation System (TES), the Navy's Joint Services Imagery Processing System - Navy (JSIPS-N), and the Air Force Intelligence Systems Reconnaissance Manager (ISRM) systems during joint engagements. 6. The Counterintelligence (CI) and Human Intelligence (HUMINT) Equipment Program (CIHEP) is an intelligence collection, analysis and reporting suite of equipment, employing commercial-off-the-shelf (COTS) and non-developmental items (NDI) of equipment and software. It will produce digital soft copy as well as hard copy CI, Interrogator-Translator (IT) and HUMINT information reports and images for the Marine Air Ground Task Force (MAGTF) or Joint Force (JTF) Commander. CIHEP will allow the electronic storage and dissemination of HUMINT information throughout the command, as well as for low volume traditional hard copy dissemination. 7. Team Portable Collection System - Multi-Platform Capable (TPCS-MPC) - The TPCS- MPC will provide the MAGTF commander with a modular and scaleable carry on/off suite of equipment capable of conducting Signals Intelligence (SIGINT) operations onboard organic non-dedicated Marine Corps air, ground, and water borne platforms. The TPCS-MPC will be highly modular, mission configurable, multi-platform system incorporating plug-and-play technologies. The system will provide state-of-the-art, versatile air/ground/water borne SIGINT and EW support to the MAGTF through the use of lightweight, flexible mission equipment suites capable of detecting, identifying, locating, and exploiting current and emerging communications technologies, intercepting non-communication signals, and improving the system's geolocation accuracy.										

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems	C2272 Intelligence C2 Systems
8. Tactical Remote Sensor System (TRSS-PIP) - The TRSS provides the Marine Air Ground Task Force (MAGTF) commander with an organic variety of sensors that will cover his Area of Responsibility for months at a time by allowing the commander to autonomously conduct unattended, semi-covert, ground surveillance of distant areas of the battlefield. Using a network of reliable passive sensors, these multiple systems enhance the commanders' ability to cover gaps in the overall intelligence collection effort, thus reducing the need to employ costly weapons systems. The sensor systems also reduces the requirement to employ Marines behind enemy lines for extended periods of time. 9. Manpack Secondary Imagery Dissemination System (MP SIDS) is a Commercial-Off-The-Shelf (COTS) refresh of a fielded system. MP SIDS consists of one (1) Base Station and three (3) Portable Outstations. It is used by the Reconnaissance Marines to electronically receive, process, reproduce, and disseminate near-real-time imagery throughout the battlefield to support all echelons of the MAGTF. 10. The Intelligence Analysis Systems (IAS) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence; it ensures that tactical intelligence is tailored to meet specific mission requirements. A Marine Expeditionary Force (MEF) IAS variant will also process signal intelligence. 11. Global Command and Control System Integrated Imagery and Intelligence (GCCS I3) is a joint program that is designed to enhance the operational Commander's situation awareness and track management through the use of a standard set of integrated, linked tools and services that maximize commonality and interoperability across the tactical theater, and national communities. GCCS-I3 operates in joint and service specific battlespace and is interoperable, transportable, and compliant with the DoD mandated Common Operating Environment (COE). 12. Technical Control Analysis Center (TCAC). The primary mission of the TCAC is to provide the Radio Battalions (RadBn) with an automated Signals Intelligence (SIGINT) processing, analysis, and reporting capability. The TCAC system is designed to receive collected intelligence from tactical, theater and National level producers and provide a multi-source fused intelligence production capability to support the Marine Air Ground Task Force (MAGTF) commander via the Intelligence Analysis System (IAS), as well as the National Security Agency (NSA) and other National consumers. 13. Intelligence Broadcast Receiver (IBR) provides Marine tactical commanders access to National level Near Real-Time intelligence data provided over the Integrated Broadcast Service. IBR is employed across the MAGTF echelons through the following Host Systems; Intelligence Analysis System; Tactical Air Operations Center; Technical Control and Analysis Center; Tactical Air Command Center; Joint STARS Common Ground Station; Tactical Electronic Reconnaissance Processing and Evaluation System and the Mobile Electronic Warfare Support System. 14. Intelligence System Readiness (ISR) Program will provide timely and targeted solutions to better enable the MAGTF Commander to accomplish his mission by (1) injecting technology rapidly, and (2) conducting up-front testing and integration. The current Marine Corps Intelligence architecture encompasses dozens of systems, acquired over a span of decades, often with little regard for interoperability. Additionally, some systems have gaps in functionality and interoperability which, when balanced against rapid advancements in technology, bring those systems to the brink of obsolescence. The ISR Program enhances the Marine Corps Intelligence Architecture by mitigating operational shortfalls through Commerical-Off-The-Shelf (COTS), Government-Off-The-Shelf (GOTS) and Non-Developmental Item (NDI) technology. In this way, ISR provides proof-of-concept prototypes and focused Research and Development (R&D) efforts to support the Marine Corps Intelligence Architecture and shorten the time required to fill gaps and field sytems. The ISR program Team also trains Marines to maximize new systems and capabilities. 15. FY02 DERF TPCS - \$2.0M. Funds are for Software Development and Testing of the Digital Receiver Technology (DRT) and test and approval of Ultralife Lithium Battery. FY03 DERF Funds are listed under Project C9273.		

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
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RDTE, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems		C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.031	0.030	0.031	0.035
RDTE Articles Qty				
CIHEP: Engineering, Integration and Technical support for technical refresh and update of program hardware/software upgrades.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.085	0.079	0.081	0.081
RDTE Articles Qty				
CIHEP: Program Management Support for the technical refresh and update of program hardware/software upgrades.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	2.100	0.000	0.000	0.000
RDTE Articles Qty				
COBRA: SD&D Contract, Northrup Grumman, System Design.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.851	0.500	0.500	0.850
RDTE Articles Qty				
COBRA: NAVSEA Technical and Contractual Support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.120	0.100	0.000	0.200
RDTE Articles Qty				
COBRA: NAVAIR Technical Support, Platform Integration Services				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.215	0.822	0.435	1.038
RDTE Articles Qty				
COBRA: MCSC Program Support				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	4.440	2.040	0.000
RDTE Articles Qty				
COBRA: SD&D Contract, Northrup Grumman, System Development, Spiral 1.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	7.645
RDTE Articles Qty				
COBRA: SD&D Contract, Northrup Grumman, System Development, Spiral 2.				

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.521	1.533
RDTE Articles Qty				
GCCS-I3: Operational system development. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this Program Element (PE).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.400	0.574
RDTE Articles Qty				
IAS MOD: Critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. Funding for this effort in FY02 and FY03 is provided under Project C2270 of this PE.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDTE Articles Qty				
IAS MOD: Support of integration facility. Funding for this effort in FY02 is provided under Project C2270 of this PE.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDTE Articles Qty				
IAS MOD: Joint interoperability assessment and documentation. Funding for this effort in FY02 is provided under Project C2270 of this PE.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.307	0.436
RDTE Articles Qty				
IAS MOD: Software modifications to support USMC joint interoperability. Funding for this effort in FY03 is provided under Project C2270 of this PE.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.200	0.000
RDTE Articles Qty				
IAS MOD Kit: Perform trade study for the IOS server, MEF IAS client and IOW laptop.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.070	0.000
RDTE Articles Qty				
IAS MOD Kit: Joint Tactical Terminal Integration.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.277	0.288
RDTE Articles Qty				
IBR: Engineering and technical management support.				

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EXHIBIT R-2a, RDT&E Project Justification					DATE:
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev			PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.854	0.722	
RDT&E Articles Qty					
IBR: Technical assessment of implementation of the Integrated Broadcast Service Common Message Format into Marine Corps Host Systems.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.340	
RDT&E Articles Qty					
ISR: Program Management and Technical Support for the ISR Program.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.420	
RDT&E Articles Qty					
ISR: Engineering Support for delivery of new technology initiatives to the Operating Forces.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.308	
RDT&E Articles Qty					
ISR: System Engineering support for the ISR Testing and Training Center.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.404	0.180	0.316	0.261	
RDT&E Articles Qty					
JSTARS: Engineering and technical support for development and integration of connectivity software that would reside on existing MAGTF systems and utilize JSTARS data.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.250	0.000	0.000	0.000	
RDT&E Articles Qty					
JSTARS: Contractor advisory and assistance services.					

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems		C2272 Intelligence C2 Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.142	0.000	0.000	0.000	
RDT&E Articles Qty					
JSTARS: Common Ground Moving Target Indication client testing.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.185	0.000	0.000	0.000	
RDT&E Articles Qty					
JSTARS: Joint Services Work Stations (JSWS) Field User Evaluation (FUE).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.485	0.000	0.000	
RDT&E Articles Qty					
JSTARS: Integration of Surveillance Common Data Link (SCDL) follow-on effort.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.340	0.000	
RDT&E Articles Qty					
JSTARS: Integration of MTES software upgrade into Common Ground Station (CGS) architecture.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.488	
RDT&E Articles Qty					
JSTARS: Integration of emerging Moving Target Indicator (MTI) sensors into JSTARS CGS software baseline.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.044	0.000	0.000	0.000	
RDT&E Articles Qty					
JSIPS-TEG: Develop Full Operational Capability; implement factory system for integration of required software/hardware upgrades.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.560	0.485	0.400	0.355	
RDT&E Articles Qty					
JSIPS-TEG: Engineer and technical management support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.300	0.000	0.000	0.000	
RDT&E Articles Qty					
JSIPS-TEG: Technical assessment of SIEC capability in support of the TEG-PIP initiative.					

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems			C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	1.771	0.000	0.000	
RDT&E Articles Qty					
JSIPS-TEG: Development of upgrades to existing software baseline to include the capability to receive and process emerging airborne imagery sensor collection platforms.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.815	0.000	
RDT&E Articles Qty					
JSIPS-TEG: Development of Time Sensitive Targeting (TST) interfaces within the common software baseline.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.940	
RDT&E Articles Qty					
JSIPS-TEG: Development of sensor cross-cueing interfaces withing the common software baseline.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.940	
RDT&E Articles Qty					
JSIPS-TEG: Development of man-portable Common Data Link (CDL) capability.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.146	0.147	
RDT&E Articles Qty					
MP SIDS: Engineering and technical support for product development of program hardware and software refresh.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.064	0.055	
RDT&E Articles Qty					
MP SIDS: Program Management and technical support for product development of program hardware and software refresh.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.021	0.038	
RDT&E Articles Qty					
MP SIDS: Program Management and technical support for Technical and Evaluation of program refresh.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.890	0.904	
RDT&E Articles Qty					
TCAC: Software development keeping TCAC with COE 5.X and future releases.					

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APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.790	2.199	2.253	2.317
RDTE Articles Qty				
TENCAP: Program support and management; evaluate national intelligence data systems for MAGTF applicability.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.455	0.400	0.428	0.437
RDTE Articles Qty				
TENCAP: Technical assessments of emerging national data dissemination capabilities.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.458	0.000	0.000	0.000
RDTE Articles Qty				
TENCAP: Training and education efforts by providing the Fleet Marine Force with TENCAP simulation, visualization, and data receipt and dissemination capabilities.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.100	0.145	0.148
RDTE Articles Qty				
TENCAP: Support operational planning to enhance operating force capabilities to US national intelligence data within the MAGTF C4I architecture.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.267	0.100	0.103
RDTE Articles Qty				
TENCAP: Evaluate the utility of emerging exploitation, automated and manual target recognition and detection tools.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.235	0.081	0.191	0.132
RDTE Articles Qty				
TPC: Contractor support for Mods				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.075	0.199	0.207	0.215
RDTE Articles Qty				
TPC: Perform Mods OT&E				

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDTE, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems			C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	2.211	0.689	0.000	0.750	
RDT&E Articles Qty					
TPCS-MPC: EDM Design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.880	0.425	0.000	0.525	
RDT&E Articles Qty					
TPCS-MPC: System development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.517	0.650	0.126	0.000	
RDT&E Articles Qty					
TPCS-MPC: Training development and test support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.518	0.971	0.000	0.392	
RDT&E Articles Qty					
TPCS-MPC: Program support and management.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.562	0.000	0.000	0.463	
RDT&E Articles Qty					
TPCS-MPC: Contractor advisory assistance service.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.100	
RDT&E Articles Qty					
TPCS-MPC: Operational Test and Evaluation (OT&E).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.532	2.366	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Development of HHPM and Low-Cost Imager.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Acoustic classification effort.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.027	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Developmental effort to improve robustness/efficiency of sensor formula module within the Remote Sensor Management System (RSMS)					

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems			C2272 Intelligence C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Technical assessment/feasibility study for alternative life-cycle aintenance solution.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.120	0.577	1.048	0.000	
RDT&E Articles Qty					
TRSS-PIP: Development of Advanced Air Delivered Sensor (AADS) store.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.565	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Software development of HHPM and Low Cost Imager; Improved Air Delivered Sensor (IADS) II; Encodder Treansmitter Unit (ETU) II; Windows 2000 migration; and RSMS ver. 3.1 field verification.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.097	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: R&D contractual supports for HHPM and Low-Cost Imager.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.411	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: R&D support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.052	0.216	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: R&D support for alternative life-cycle maintenance effort.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.026	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Field-testing and evaluation of IADS II.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.044	0.020	0.060	0.000	
RDT&E Articles Qty					
TRSS-PIP: NAVAIR consulting for AADS Store.					

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Systems		C2272 Intelligence C2 Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Development of Unattended Ground Miniaturized Sensors (UGMS) and AADS electronic components.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Air Certification of Advanced Air Delivered Sensor (AADS) store.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.300	0.700	0.000	
RDT&E Articles Qty					
TRSS-PIP: Software Development of AADS and UGMS Monitoring System.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
TRSS-PIP: Technical assessment of mobile sensors.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.500	1.450	
RDT&E Articles Qty					
TRSS-PIP: Development of Visual Intelligence Surveillance Target Alert System (VISTAS).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.962	
RDT&E Articles Qty					
TRSS-PIP: Development of mobile sensors.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.150	1.000	
RDT&E Articles Qty					
TRSS-PIP: Software development of VISTAS.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.005	
RDT&E Articles Qty					
TRSS-PIP: Development of air relay/recovery.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.647	
RDT&E Articles Qty					
TRSS-PIP: Development of alternative power.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.180	
RDT&E Articles Qty					
TRSS-PIP: Software development of air relay/recovery.					
(U) Total \$	0.000	16.862	18.352	17.616	32.424

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems		PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems	
(U) PROJECT CHANGE SUMMARY:					
	FY2002	FY2003	FY2004	FY2005	
(U) FY 2003 President's Budget:	18.286	19.900	16.424	19.097	
(U) Adjustments from the President's Budget:					
(U) Congressional/OSD Prog Reduction	-0.051	-1.548	0.039	-1.730	
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	-1.308		1.159	15.058	
(U) SBIR/STTR Transfer					
(U) Minor Affordability Adjustment	-0.065		-0.006	-0.001	
(U) FY 2004 President's Budget:	16.862	18.352	17.616	32.424	
 CHANGE SUMMARY EXPLANATION:					
(U) Funding: Increase in funding for FY04 and FY05 is due to the realignment of programs within the Marine Corps.					
(U) Schedule: Not Applicable.					
(U) Technical: Not Applicable.					

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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev			0206313M Marine Corps Communication Systems				C2272 Intelligence C2 Systems					
(U) C. OTHER PROGRAM FUNDING SUMMARY:												
Line Item No. & Name			FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
PMC BLI 471400	Intell Support	TRSS-PIP	0.000	0.000	9.476	13.054	20.102	18.775	16.411	13.786	Continuing	Continuing
PMC BLI 474700	Intell Support	TRSS-PIP	1.811	5.788	0.000	0.000	0.000	0.000	0.000	0.000	0	7.599
PMC BLI 474700	Intell Support	CIHEP	0.000	1.788	1.390	1.489	1.585	1.681	1.803	1.909	Continuing	Continuing
PMC BLI 474700	Intell Support	COBRA	0.000	0.000	0.000	0.000	1.210	1.817	3.227	0.250	Continuing	Continuing
PMC BLI 474700	Intell Support	JSIPS	5.699	11.427	2.905	0.618	0.000	0.000	0.000	0.000	0	20.649
PMC BLI 474700	Intell Support	TPCS-MULTI	0.000	0.000	0.000	7.086	8.086	7.771	5.929	0.275	Continuing	Continuing
PMC BLI 474700	Intell Support	MP SIDS	0.000	0.000	1.062	2.857	1.711	1.712	1.762	1.721	Continuing	Continuing
PMC BLI 474700	Intell Support	IBR	2.494	0.000	1.557	3.545	1.409	0.418	0.428	0.436	Continuing	Continuing
PMC BLI 474700	Intell Support	TPC	1.853	7.170	3.317	0.573	0.000	0.000	0.000	0.000	Continuing	Continuing
PMC BLI 474700	Intell Support	RREP	0.000	3.939	0.000	0.000	4.194	0.000	0.000	4.228	Continuing	Continuing
PMC BLI 474700	Intell Support	TSCM	0.000	0.000	2.245	0.000	1.233	0.000	1.330	0.000	Continuing	Continuing
PMC BLI 474900	Intell Support	IAS MOD Kit	1.570	1.315	1.347	1.354	1.375	1.398	1.445	1.474	Continuing	Continuing
PMC BLI 474900	Mod Kits Intell	TCAC	0.863	1.462	0.345	1.545	0.945	0.945	0.945	1.145	Continuing	Continuing
PMC BLI 474900	Mod Kits Intell	JSTARS	1.680	0.262	3.331	5.606	4.617	0.088	4.623	1.504	Continuing	Continuing
PMC BLI 474900	Mod Kits Intell	TERPES	1.656	0.000	2.828	0.000	3.022	0.000	3.182	0.000	Continuing	Continuing
PMC BLI 474900	Mod Kits Intell	ISR	0.000	0.000	0.000	2.076	4.616	4.634	4.754	4.776	Continuing	Continuing
(U) Related RDT&E:												
(U) PE 0301301L (Department of Defense Intelligence and Information Systems/Military Intelligence Integrated Data System/Integrated Data Base I and II)												
(U) PE 0604270A (Intelligence and Electronic Warfare Common Sensor (IEWCS), TACJAM-A)												
(U) PE 0305885G (Tactical Cryptologic Program)												
(U) PE 0603730A (Tactical Surveillance System - Advanced Development), Army TENCAP, Project D560												
(U) PE 0603766A (Tactical Electronic Surveillance System - Advanced Development), Army TENCAP, Project D907												
(U) PE 0604740A (Tactical Surveillance System - Engineering Development), OSD TENCAP, Project D662												
(U) PE 0902398M (United States Special Operations Command), Chariot Program												
(U) PE 0605867N (SEW Surveillance/Reconnaissance Support), Project Z1034												
(U) PE 0206313M (Marine Corps Communication Systems), Project C9273												

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
(U) D. ACQUISITION STRATEGY: (U) ACQUISITION STRATEGY JSTARS: JSTARS will utilize ongoing Army and Navy JSTARS contracts for procurement of follow-on Common Data Link (CDL) upgrades and for Pre-Planned Product Improvements (P3I) to the JSTARS CGS software baseline. SPAWAR-Charleston, SC will oversee the integration and testing of these upgrades within the USMC C4I architecture. On-Site contractor logistical support will be provided through General Dynamic's I2P2 contract out of MCLB, Albany, GA. (U) ACQUISITION STRATEGY COBRA: COBRA System Development, Test and Demonstration based upon a competitive, multi-year, CPFF/CPIF contract awarded to Northrop Grumman 4Q 2001. Production will be FFP. Technology insertion will add objective capabilities as they are matured and integrated by other DOD organizations. (U) ACQUISITION STRATEGY JSIPS TEG: The three deployed TEG(s) were procured from an ESC USAF Raytheon contract. During FY02, the Marine Corps brought control of the TEG program into Marine Corps System Command. A contract is in place with SPAWAR Charleston, SC to upgrade the TEG(s), conduct training, provide logistical support, sustainment and program management. Once a system baseline is established and tested, a MS III decision will be scheduled. (U) ACQUISITION STRATEGY TPCS: TPCS, the ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. These technology insertions and product improvements will ensure the Radio Battalions maintain cutting edge technologies and collection capabilities. (U) ACQUISITION STRATEGY TRSS: Development will be competitive down selection process to two vendors for a Cost Plus Development Contract followed up with an award to one vendor with a FFP Production Contract. Air certification will be conducted in house at NAVAIR Patuxent River NAS, MD. (U) ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts. (U) ACQUISITION STRATEGY CIHEP: CIHEP will use existing 8A contractor, Action Systems, the developer of the original system for test, evaluation and integration of planned refresh items for the ADP and Imagery Module. US Army IMA will be used for test, evaluation, and integration of planned refresh items for the TSS, Audio and Miscellaneous modules. CIHEP will coordinate acquisitions of communications equipment with PM Comm for planned upgrades to the Communications Module. (U) ACQUISITION STRATEGY MP SIDS: Seventy three (73) suites of the refreshed MP SIDS have been integrated and are in-process of being fielded. Fielding will be accomplished during the FY 02-03 timeframe. A contract is in place with SPAWAR Charleston, SC to provide configuration management, research and development and program management support. The MP SIDS has an established baseline and will receive a technological refresh of 33% of the system each year for FY 04 through 06. (U) ACQUISITION STRATEGY GCCS-I3: The contract vehicle to be used is an existing Cost Reimbursable contract. An Intelligence Integration Facility has been established at the Integrated Team Solution Facility. As such, this facility will be used as the hub for the entire integration effort of the GCCS-I3 initiative. The program is funded for five years beginning in FY02 and, as it is not a procurement effort, there are no life cycle or acquisition phases for which the Marine Corps is responsible. (U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements. (U) ACQUISITION STRATEGY IBR: In house contracts will be used to conduct engineering studies and test and evaluation activities associated with the Marine Corps implementation of the Integrated Broadcast Service, Common Message Format.		

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(U) ACQUISITION STRATEGY TPC: TPC will continue Mods to system including the very large part of software/COTS upgrades. (Software will need security testing at each software upgrade). (U) ACQUISITION STRATEGY ISR: The ISR Program is embracing the capabilities-based, evolutionary approach of the new DoD 5000 series guidance to allow for a quick and efficient insertion of technology to the MAGTF. Currently, full-time contractor support is provided by BAE Applied Technologies, Bulldog Technical Services, and MTC Services Corporation. All Contractor support is resident within the ITS facility. (U) ACQUISITION STRATEGY IAS: The IAS program uses existing Government contracts for hardware and software development and integration. The system is comprised primarily of Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment.		
(U) E. MAJOR PERFORMERS: MANPACK SIDS (MP SIDS) FY 04 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support. FY 05 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support. INTELLIGENCE BROADCAST RECEIVER (IBR) FY 04 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Stafford, VA Provide funds for Engineering and Program management support. COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA Provide funds to MDA Technologies for IBS Common Message format implementation assessment. FY 05 NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Stafford, VA Provide funds for Engineering and Program management support. COMPUTER SCIENCE CORPORATION (CSC), Woodbridge, VA Provide funds to MDA Technologies for IBS Common Message format implementation assessment. INTELLIGENCE ANALYSIS SYSTEM (IAS) FY 04 SPAWAR, CHARLESTON, S.C. Provide funds for improvement to GCCS-I3 software, joint interoperability testing, trade study for IOS server and clients and integration of JTT. FY 05 SPAWAR, CHARLESTON, S.C. Provide funds for operational system development, joint interoperability, assessment and documentation and joint tactical terminal integration.		

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(U) E. MAJOR PERFORMERS: TEAM PORTABLE COLLECTION SYSTEM - MULTI-PLATFORM CAPABLE (TPCS-MPC) FY 02 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM. NAVAL SURFACE WARFARE COMMAND (NSWC), Crane, IN Provide funds to Digital Access Corp, Woodbridge, VA for SCSM development and Program Development Support Services (PDSS). FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), System Engineering Technical Assistance, Stafford VA Provide funds SETA support contract for system engineering and program management. COMPUTER SCIENCE CORP, Dumfries, VA Funds provided for SETA support for Configuration Management (CM). BTG, Dumfries VA Funds provide Contractor Engineering Technical Support (CETS) at RadBn for training support and Independent Validation and Verification (IV&V) at 1st and 2nd RadBn. FY 05 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), System Engineering Technical Assistance, Stafford VA Provide funds SETA support contract for system engineering COMPUTER SCIENCE CORP, Dumfries, VA Funds provided for SETA support for Configuration Management (CM). MARINE CORP OPERATIONAL TEST & EVALUATION ACTIVITY (MCOTEA), Quantico, VA Funds provides IOT&E. GLOBAL COMMAND AND CONTROL SYSTEM INTEGRATED IMAGERY AND INTELLIGENCE (GCCS I3) FY 04 MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services. FY 05 MTC Services Corporation (MTC) Stafford, VA. Provide funds for Engineering and Program support services. COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS (COBRA) FY 02 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melbourne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support. FY 03 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melbourne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support. FY 04 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melbourne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support. FY 05 NAVAL SEA WARFARE COMMAND (NSWC), Panama City, FL Provide funds for program and technical support. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Melbourne, FL Provide funds system engineering and development of Spiral 1 and Spiral 2. MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for Program and technical support.			

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(U) E. MAJOR PERFORMERS: TOPOGRAPHIC PRODUCTION CAPABILITY (TPC) FY 02 MARINE CORPS INTELLIGENCE ACTIVITY (MCIA) Quantico, VA. Modification to Geographically Linked Information Dissemination Environment (GLIDE) application. Dec 01 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC, Chantilly VA for software modification. Oct 01 FY 03 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC,for DII COE software segmentation Dec 02 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for program office support under CEOSS contract Oct 02 FY 04 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC,for DII COE software segmentation Dec 03 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for program office support under CEOSS contract Oct 03 FY 05 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds to Northrop Grumman Information Technology, TASC,for DII COE software segmentation Dec 03 MARCORSYSCOM, (MCSC), Quantico, VA Provide funds for program office support under CEOSS contract Oct 03 JOINT SURVEILLANCE TARGET ATTACK RADAR (JSTARS) FY 02 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for Acquisition and Technical support. JOINT INTEROPERABILITY TEST CENTER (JITC), Ft. Huachuca, AZ. Provide funds for Interoperability testing. FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. TBD, Provide funds for Acquisition and Technical support. FY 04 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. TBD, Provide funds for Acquisition and Technical support. FY 05 SPAWAR, CHARLESTON, S.C. Provide funds for depot support, CGC integration and interoperability development. TBD, Provide funds for Acquisition and Technical support. JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG) FY 02 SPAWAR, CHARLESTON, S.C. Provide funds for prime integration. NAVAL SURFACE WARFARE CENTER (NSWC), Crane, IN, Provide funds for Operational Testing support. MARCORSYSCOM, Quantico, VA. Provide funds for software development of software baseline. AFB, Wash, DC Classified Contract . FY 03 MARCORSYSCOM, Quantico, VA. Provide funds for software development. TBD, Provide funds for Acquisition and Technical support. FY 04 MARCORSYSCOM, Quantico, VA. Provide funds for software development of software baseline. TBD, Provide funds for Acquisition and Technical support. FY 05 MARCORSYSCOM, Quantico, VA. Provide funds for software development of software baseline TBD, Provide funds for Acquisition and Technical support. L3 COMM, Salt Lake City, UT. Provide funds for TIGDL development.		

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(U) E. MAJOR PERFORMERS: TACTICAL CONTROL AND ANALYSIS CENTER (TCAC) FY 04 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems. Oct 03 FY 05 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems. Oct 04 TACTICAL REMOTE SENSOR SYSTEM (TRSS) FY 02 NAWC, Crane IN. Provide funds towards development of HHPM and Low-Cost Imager (UGMS-1). Jun 02 FY 02 OCEAN SYSTEMS ENGINEERING CORPORATION (OSEC), Carlsbad, CA. Provide funds towards software development of HHPM, Low-Cost Imager (UGMS-1); and Improved Air-Delivered Sensor II (IADS-II) and continuation of R&D support. Mar 02 FY03 NAWC, Crane IN. Funds to be provided towards the development of Low-Cost Imager (UGMS-I). Feb 03 FY03 MODERN TECHNOLOGIES CORP., Springfield, VA. Funds to be provided for Alternative Life-Cycle Maintenance. Feb 03 FY03 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided for the development of the Advanced Air-Delivered Sensor (AADS). Mar 03 FY03 NAVAIR, Patuxent River, MD. Funds to be provided to PM-265 to begin air certification process of the AADS store. Apr 03. FY03 OCEAN SYSTEMS ENGINEERING CORP. (OSEC), Carlsbad, CA. Funds to be provided for Software Development of UGMS Monitoring System. Apr 03. FY 04 OCEAN SYSTEMS ENGINEERING CORPORATION (OSEC), Carlsbad, CA. Funds to be provided for software development of the AADS, UGMS and VISTAS. Oct 04. FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided for the development of the AADS Store. Oct 04. FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided for the development of the VISTAS. Oct 04. FY04 NAVAIR, Patuxent River, MD. Funds to be provided for Consulting of AADS Store. Oct 04. FY05 MTC SERVICES CORPORATION, Chula Vista, CA. Funds to be provided for the continuation of development of mobile sensors. Dec 04. FY 05 OCEAN SYSTEMS ENGINEERING CORP (OSEC), Carlsbad, CA. Funds to be provided for software development of mobile sensors, VISTAS, and Air Relay/Recovery. Dec 04. FY05 MARCORSYSCOM (MCSC), Quantico, VA. Funds to be provided to continue the development of the VISTAS and Alternative power. Dec 04. FY05 NAVAIR, Patuxent River, MD. Funds to be provided for the development of the air relay/air recovery. Dec 04. COUNTERINTELLIGENCE AND HUMAN INTELLIGENCE (HUMINT) EQUIPMENT PROGRAM (CIHEP) FY02 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02. FY02 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02. FY02 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 02. FY02 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 02. FY03 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02. FY03 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Program Management support for tech refresh and upgrade of program hardware and software Oct 02. FY03 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 02. FY03 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 02. FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford, VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 03. FY04 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 03. FY04 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 03. FY04 USAIMA, Fort Meade, MD. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 03. FY05 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to Northrop Grumman IT, Stafford VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 04. FY05 MARCORSYSCOM (MCSC), Quantico, VA. Funds provided to MTC Service Corp Dumfries, VA for Pgm Mgmt support for tech refresh and upgrade of program hardware and software Oct 04. FY05 MARCORSYSCOM (MCSC), Quantico, VA. Program Management support for tech refresh and upgrade of program hardware and software Oct 04. FY 05 ACTION SYSTEMS, Las Cruces, NM. Engineering, Integration and technical support for tech refresh and upgrade of program hardware and software Oct 04.		

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Exhibit R-3 Cost Analysis										DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME								
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communications Sys			C2272 Intelligence C2 Systems								
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TENCAP	Various	Delfin	9.838	1.583	01/02	0.400	01/03	0.428	12/03	0.437	12/04	Cont.	Cont.	
TENCAP	TBD	TBD	0.685	0.000		0.100	03/03	0.145	12/03	0.148	12/04	Cont.	Cont.	
JSTARS	WR	SPAWAR CH	0.359	0.594	04/02							0.000	0.953	1.333
COBRA	RCP	MARCORSYSCOM	0.500	0.165	12/01	4.973	12/02					Cont.	Cont.	
COBRA	RCP	NGIT						2.040	01/04	7.645	01/05	Cont.	Cont.	
JSIPS TEG	MIPR	AFB, Wash DC	2.314	0.300	12/01							0.000	2.614	5.509
JSIPS TEG	WR	SPAWAR		1.044	12/01							0.000	0.000	5.509
TPCS-MPC	WR	SPAWAR		1.931	12/01	0.689	12/02			0.750	TBD	Cont.	Cont.	
MP SIDS	WR	SPAWAR						0.146	01/04	0.147	02/05	Cont.	Cont.	
CIHEP	RCP	Action Systems		0.031	04/02	0.030	12/02			0.035	12/04	Cont.	Cont.	
CIHEP	RCP	USAIMA						0.031	12/03			Cont.	Cont.	
CIHEP	RCP	NGIT				0.016	01/03	0.020	01/04	0.025	01/05	Cont.	Cont.	
CIHEP	RCP	MTC Service Corp				0.020	01/03	0.020	01/04	0.025	01/05	Cont.	Cont.	
CIHEP	RCP	MCSC		0.085	06/02	0.043	06/03	0.041	06/04	0.031	06/05	Cont.	Cont.	
TRSS-PIP	RCP	NAWC, Crane		1.000	06/02	2.366	02/03					Cont.	Cont.	
TRSS-PIP	WR	NSWC, Dahlgren		0.123	02/02							Cont.	Cont.	
TRSS-PIP	WR	NPGS, Monterey		0.027	04/02							Cont.	Cont.	
TRSS-PIP	RCP	ModernTC		0.329	03/02	0.216	02/03			0.962	12/04	Cont.	Cont.	
TRSS-PIP	RCP	OSEC		0.765	03/00	0.300	04/03	0.850	01/04	1.180	12/04	Cont.	Cont.	
TRSS-PIP	RCP	MCSC				0.577	04/03	2.548	01/04	2.097	12/04	Cont.	Cont.	
TRSS-PIP	MIPR	NAVAIR				0.020	04/03	0.060	01/04	3.005	12/04	Cont.	Cont.	
IBR	RCP	NGIT						0.277	10/03	0.288	12/04	Cont.	Cont.	
IBR	RCP	CSC/MDA						0.754	10/03	0.722	10/04	Cont.	Cont.	
Subtotal Product Development			13.696	7.977		9.750		7.360		17.497		Cont.	Cont.	
Remarks:														

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RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communications Sys			C2272 Intelligence C2 Systems								
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TENCAP	Various	Delfin	2.785	0.800	10/01	2.199	10/02	2.253	12/03	2.317	12/04	Cont.	Cont.	
TENCAP	TBD	TBD	0.200	0.000		0.267	03/03	0.100	12/03	0.103	12/04	Cont.	Cont.	
TENCAP	MIPR	SMC/XRBP		0.320	04/02							0.000	0.320	0.320
COBRA	RCP	CSS	0.800	2.100	10/01	0.658	10/02					Cont.	Cont.	
COBRA	WR	BRTRC	0.260	0.100	12/01	0.006	12/02					Cont.	Cont.	
COBRA	WR	NAWC-AD	0.200	0.020	12/01	0.200	12/02					Cont.	Cont.	
COBRA	WR	NSWC	0.281	0.851	04/02	0.025	04/03					Cont.	Cont.	
COBRA	RCP	various						0.435	12/03	1.038	12/04	Cont.	Cont.	
COBRA	WR	NAVSEA						0.500	10/03	0.850	10/04	Cont.	Cont.	
COBRA	WR	NAVAIR								0.200	11/04	Cont.	Cont.	
JSIPS - TEG	WR	MCSC		0.183	01/02							Cont.	Cont.	
JSIPS - TEG	WR	NSWC, Crane		0.377	01/02							Cont.	Cont.	
JSIPS - TEG	RCP	TBD				0.485	10/02	0.400	10/03	0.355	10/04	Cont.	Cont.	
JSIPS - TEG	RCP	MCSC				1.771	01/03	1.815	01/04	0.940	01/05	Cont.	Cont.	
JSIPS - TEG	RCP	L3 COMM								0.940	11/05	Cont.	Cont.	
TPC	RCP	MCSC	0.371	0.235	12/01	0.081	12/02	0.191	12/03	0.132	12/04	Cont.	Cont.	
TPCS-MPC	RCP	NGIT		0.562	11/01							Cont.	Cont.	
TPCS-MPC	RCP	CSC		0.464	03/02	0.971	04/03			0.855	TBD	Cont.	Cont.	
TPCS-MPC	RCP	DAC		0.054	03/02							Cont.	Cont.	
TPCS-MPC	MIPR	MCOTEA						0.126	12/03	1.100	TBD	Cont.	Cont.	
TPCS-MPC	RCP	NSWC, Crane		0.880	08/02							Cont.	Cont.	
MP SIDS	RCP	NGIT						0.050	02/04	0.050	01/05	Cont.	Cont.	
IAS MOD KIT	RCP	SPAWAR						0.470	10/03	0.574	10/04	Cont.	Cont.	
IAS MOD KIT	WR	SPAWAR						0.507	11/03	0.436	11/04	Cont.	Cont.	
GCCS I3	RCP	MTC						0.893	10/03	0.937	10/04	Cont.	Cont.	
GCCS I3	RCP	G2 Technology						0.628	10/03	0.596	10/04	Cont.	Cont.	
TCAC	RCP	BTG						0.890	10/03	0.904	10/04	Cont.	Cont.	

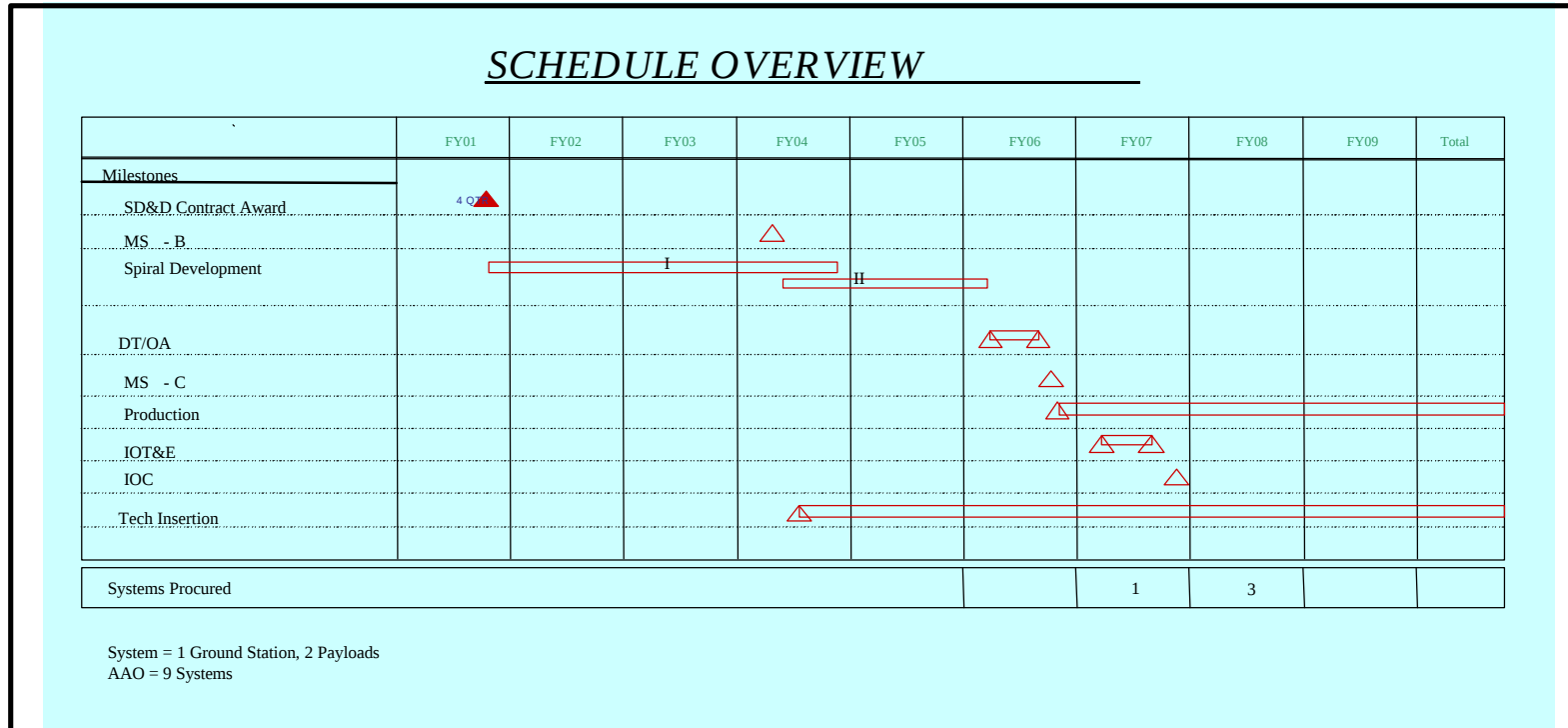
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JSTARS	RCP	NGIT		0.242	0.182	03/02							Cont.	Cont.	
JSTARS	RCP	TBD					0.180	10/02	0.316	10/03	0.261	10/04	Cont.	Cont.	
JSTARS	WR	SPAWAR					0.485	11/02	0.340	01/04	0.488	01/05	Cont.	Cont.	
JSTARS	MIPR	JITC			0.145	03/02							Cont.	Cont.	
JSTARS	MIPR	WR-ALC			0.060	03/02							Cont.	Cont.	
IBR	RCP	CSC/MDA							0.100	10/03			Cont.	Cont.	
TRSS-PIP	WR	NSWC, Crane			0.097	02/02							Cont.	Cont.	
TRSS-PIP	RCP	OSEC			0.235	11/01							Cont.	Cont.	
TRSS-PIP	RCP	MilleniumTC			0.211	04/02							Cont.	Cont.	
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
TRSS-PIP	RCP	NGIT		0.087	11/01							Cont.	Cont.		
ISR	WR	MTC								0.340	01/05	Cont.	Cont.		
ISR	WR	G2 Technology								0.308	01/05	Cont.	Cont.		
ISR	WR	MTC								0.420	02/05	Cont.	Cont.		
Subtotal Support			5.139	7.963		7.328		10.014		14.144		Cont.	Cont.		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
COBRA	WR	MCOTEA		0.050	11/02										
TPC	RCP	MCIA		0.075	12/01							Cont.	Cont.		
TPC	RCP	MCSC				0.199	10/02	0.207	10/03	0.215	10/04	Cont.	Cont.		
TPCS-MPC	RCP	SPAWAR		0.280	06/02	0.425	03/03			0.525	TBD	Cont.	Cont.		
TPCS-MPC	RCP	BTG		0.517	03/02	0.650	03/03					0.000	1.167	1.283	
MP SIDS	RCP	NGIT						0.010	01/04	0.010	01/05	Cont.	Cont.		
MP SIDS	WR	SPAWAR						0.014	01/04	0.015	01/05	Cont.	Cont.		
Subtotal T&E			0.000	0.922		1.274		0.231		0.765		Cont.	Cont.		
Remarks:															
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
MP SIDS	WR	SPAWAR						0.011	01/03	0.018	01/05	Cont.	Cont.		
Subtotal Management			0.000	0.000		0.000		0.011		0.018		Cont.	Cont.		
Remarks:															
Total Cost				16.862		18.352		17.616		32.424		Cont.	Cont.		

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Exhibit R-4/4a Schedule Profile/Detail			DATE:	February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME		
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2272 Intelligence C2 Systems		

COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS (COBRA) MILESTONE SCHEDULE



<u>Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(APPN, BLI #, NOMEN)										
(U) RDT&E,N	3.286	5.862	2.975	9.733	6.424	3.433	1.652	1.106	Continuing	Continuing
(U) PMC BLI# 474700 Intell Supp Eq COBRA	0	0	0	0	1.210	1.817	3.227	0.250	Continuing	Continuing

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Exhibit R-4/4a Schedule Profile/Detail						DATE: February 2003																																																																																																																																																																																																																																																												
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(U) RDT&E,N		4.688	2.735	0.126	3.230	2.610	3.514	2.815	1.498	Continuing	Continuing																																																																																																																																																																																																																																																							
(U) PMC BLI# 474700 Intell Sup (TPCS)		0	0	0	7.086	8.086	7.771	5.929	0.275	Continuing	Continuing																																																																																																																																																																																																																																																							

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev			PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys			PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost To Complete	Total Program
Project Cost	21.930	65.142	95.971	106.936	79.117	106.415	31.574	20.324	Cont	Cont
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: (U) Air Operations C2 coordinates and plans Navy and Marine air combat operations and interfaces with joint and combined forces air operations. It also interfaces with fire support C2. The systems in this project are used to detect aircraft and missiles, process the detected information, deliver the processed information to the Advanced Tactical Air Command Central (ATACC), and conduct the air battle. 1. The Air Defense Communications Platform (ADCP) PIP provides an interface for the AN/TPS-59(V)3 radar and for tactical ballistic missile defense as a JTIDS network user. The ADCP provides a direct interface between the AN/TPS(V)3 and the joint services. 2. The Aviation Radar (AN/TPS-59) is a "congressionally mandated" national asset. It is the only fielded ground based sensor which can detect and track Theater Ballistic Missiles at ranges of 400 nautical miles, for 360 degrees up to one million feet in elevation. Funding for this program has moved to Project C3099 within this Program Element (PE) FY04. 3. The Common Aviation Command and Control System (CAC2S) will provide a common baseline of equipment, computer hardware, and software required to perform the mission of the Marine Air Command and Control System (MACCS). CAC2S will provide a complete and coordinated modernization effort for the equipment of the MACCS to support its employment in an Operational Maneuver from the Sea (OMFIS) environment. The CAC2S will eliminate the current dissimilar aviation Command & Control systems, and will add the capability for aviation combat direction and air defense functions. CAC2S will be comprised of standardized tactical facilities, hardware, software and will significantly reduce the physical size and logistical footprint of existing MACCS equipment suite. Utilizing common hardware, the CAC2S will be an open architecture system that will migrate to the Defense Information Infrastructure Common Operating Environment (DII COE). Furthermore, CAC2S will execute real time functions of controlling aircraft and missiles, and employing weapon systems against time critical targets. CAC2S will provide a capability that allows operators to integrate Marine aviation into joint and combined air/ground operations. CAC2S will provide the tools that perform aviation C2 planning and execution functions in a positive control environment. CAC2S will assimilate the missions and fiscal resources of the Tactical Air Operations Center (TAOM), Tactical Air Command Center and the Direct Air Support Center (DASC) and the Air Defense Communications Platform (ADCP). 4. The Composite Tracking Network, formerly known as Cooperative Engagement Capability (CEC), enables all CTN and CEC equipped, Anti-Air Warfare (AAW) weapons systems in a battle force to operate as a single, distributed AAW weapon system. This is accomplished providing timely sharing of fire control quality sensor data, correlated identification data, and AAW weapons management status. The sensor networking capability of CTN essentially allows forces to have a direct connection to the various sensors supported by forces throughout a battlefield enabling the development of a common understanding of the air situation. CTN consists of common processing units that interface with local and remote sensor data in order to develop a common track database and data communications pieces that enable the connectivity and networking of the sensors and processors. Funding for this program in FY02 and FY03 is found in Project C2278 with this PE. 5. The Critical Infrastructure will develop a new capability for video teleconferencing capability via service intranet capabilities. 6. The MACCS Sustainment consists of various command and control agencies designed to provide the Aviation Combat Element (ACE) commander with the ability to monitor, supervise and influence the application of Marine aviation assets in support of MAGTF operations. The MACCS Sustainment provides funding to keep these legacy agencies ready, relevant and capable until their functions are replaced by the Common Aviation Command and Control System (CAC2S). 7. "SIAP is the product of fused, common, continual, unambiguous tracks of airborne objects within the surveillance area." The Single Integrated Air Picture (SIAP) Systems Engineer Task Force is an ad hoc Joint effort to investigate, research and produce the most cost effective means for producing a SIAP. The SIAP System Engineer Task Force (SE TF) is not limited to just material solutions in this effort; all aspects will be considered for recommendation to produce the SIAP including tactics, techniques and procedure changes to Service operations. Funding for this program in FY03 is found in C2270 within this PE. 8. Theater Battle Management Core Systems (TBMCS) provides the commander the automated tools necessary to generate, disseminate, and execute the Air Tasking Order (ATO), as mandated by the Chairman, Joint Chiefs of Staff in July 1993. It is an evolutionary acquisition, allowing for the rapid development/fielding of hardware and software to meet today's rapidly advancing technology. It is fielded to all four Marine Tactical Air Command Squadrons (MTACS) and the supporting establishment with Marine Aviation Weapons and Tactics School (MAWTS) and the Battlestaff Training Facility (BSTF) sharing a system.										

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2003

APPROPRIATION/BUDGET ACTIVITY

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

PROGRAM ELEMENT NUMBER AND NAME

0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME

C2273 Air Operations C2 Systems

9. The Unit Operations Center (UOC) project develops and transitions two Command and Control Imperative ATDs (the Expeditionary Integrated Combat Operations Center) and the Joint Tactical Communications ((JT COMMs) ATDs) into various Marine Corps and Joint Engineering and Manufacturing Development (E&MD) efforts. UOC development efforts focus on: Cognitive Task Analysis (CTA); enhanced ergonomic physical design; evaluation of advanced multimedia hardware; integration and networking with advanced development communication systems; and advanced software development to support systems integration and advanced battlefield visualization concepts. UOC developments are tailored to support transition of software and hardware developments as PIPs to the established MAGTF C4I baseline. Unit Operations Center (UOC) will provide a facility and components for the integration of current and planned battlefield automation systems.

It will be, in essence, a "system of systems" designed to optimize the positioning, interaction, and flow of information among the various staff agencies (G-2, G-3, Operations Directorate, etc.) and their automated information systems and between the unit and higher, adjacent or subordinate units or headquarters. The Marine Corps deploys Component/Joint Task Force (JTF/Marine Air Ground Task Force (MAGTF)) command elements throughout the world to fulfill operational requirements, often in joint/combined forces arenas. The UOC is designed in garrison and tactical versions. The tactical version is called the Combat Operations Center (COC) which is an outgrowth of the integrated COC (ICOC), COC-Interim (COC(I)), and the Enhanced COC (ECOC) developments over the last two years. The garrison version is called the Command Center (CC). Funding for this program in FY02 and FY03 is found in C2270 within this PE.

(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.125	0.105	0.099	0.035
RDT&E Articles Qty				

ADCP: Tested and certified software enhancements.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.100	0.100	0.094	0.088
RDT&E Articles Qty				

ADCP: Software enhancements to meet ADCP ORD requirements.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	5.907	0.000	0.000	0.000
RDT&E Articles Qty				

AN/TPS-59: Demonstrated potential antenna technology/slotted waveguide antenna.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.612	0.000	0.000	0.000
RDT&E Articles Qty				

AN/TPS-59: Develop ECP to incorporate electronic protection.

COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.500	0.000	0.000	0.000
RDT&E Articles Qty				

AN/TPS-59: Developed ECP to incorporate new transmitters for the antenna.

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.098	0.000	0.000	0.000	
RDT&E Articles Qty					
AN/TPS-59: Initiated ECP false alarm adaption software.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	1.939	0.000	0.000	
RDT&E Articles Qty					
AN/TPS-59: Develop ECPs for software improvements. Funding for this program has moved to Project C3099 within this PE.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	1.500	0.000	0.000	
RDT&E Articles Qty					
AN/TPS-59: Develop Automatic False Alarm Reduction (FAR) software. Funding for this program has moved to Project C3099 within this PE.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	2.100	0.000	0.000	
RDT&E Articles Qty					
AN/TPS-59: Investigate Advanced Technologies to incorporate into the antenna. Funding for this program has moved to Project C3099 within this PE.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.562	0.000	
RDT&E Articles Qty					
AN/TPS-59: Adjustment for PBD 290. Funding for this program has moved to Project C3099 within this PE.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	2.591	3.170	5.170	5.276	
RDT&E Articles Qty					
CAC2S: Program management support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	5.675	8.014	11.966	18.948	
RDT&E Articles Qty					
CAC2S: PDRR demonstration. Engineering Development Model (EDM) hardware and software development, design, of host processing system, and conduct software integration of Joint mandated applications, developmental testing and evaluation and baseline stabilization.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	42.110	44.465	43.440	
RDT&E Articles Qty					
CAC2S: System development in accordance with rephasing plan and continued sensor interface/integration, communications interface/interoperability development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.600	0.600	2.664	
RDT&E Articles Qty					
CAC2S: Independent Validation and Verification on (SPAWAR Systems Center Charleston) of Phase I Contractor's Systems Design.					

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.834	1.215
RDT&E Articles Qty				
CTN: Software development: Interface Design Document (IDD) development for CAC2S and CLAWS interface to CTN.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	6.307	0.000
RDT&E Articles Qty				
CTN: Development of Engineer Design Model.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.919	0.000
RDT&E Articles Qty				
CTN: Testing and Evaluation: Developmental testing support. Certification of CAC2S and CLAWS interfaces to CTN.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.530	0.610
RDT&E Articles Qty				
CTN: Program management support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.920
RDT&E Articles Qty				
CTN: IV&V of the certified system with interfaces to CAC2S and CLAWS.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	2.735
RDT&E Articles Qty				
CTN: Finalize Engineer Development Model for production design. Funding for this effort in FY02 and FY03 is provided under Project C2278 within this PE.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	2.000	0.000	0.000
RDT&E Articles Qty				
CRITICAL INFRASTRUCTURE: VTC Coop Engineering.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.295	0.022	0.022	0.500
RDT&E Articles Qty				

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N IBA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems	
MACCS SUSTAINMENT: Test and evaluation on the DASC Airborne SLEP.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	2.223	0.899	0.899	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Planned software upgrades for the TAOM, JTIDS and TACC, DASC.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.101	0.290	0.290	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Program management support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.537	1.183	0.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Multi-Source Correlation System software development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000
RDT&E Articles Qty				
MACCS SUSTAINMENT: Test and Evaluation for TAOM tech insert and interoperability.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	2.343
RDT&E Articles Qty				
MACCS SUSTAINMENT: Technology integration efforts for MSCS (TACC).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Qty				
SIAP: Implement JROC approved Block 0 changes in the TAOM.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	5.960	7.833
RDT&E Articles Qty				
SIAP: Service System Engineering support to SIAP System Engineer Task Force.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.880	0.000
RDT&E Articles Qty				
SIAP: Update MCTSSA SIE HWILT (AVN C2) hardware and software to reflect SIAP changes.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.200	1.200
RDT&E Articles Qty				
SIAP: Engineering and analysis for SIAP system engineer Support.Funding for this program in FY03 is provided under Project C2270 within this PE.				

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys		PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.407	0.465	0.474	0.446	
RDT&E Articles Qty					
TBMCS: USMC TBMCS development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.033	0.033	0.033	0.035	
RDT&E Articles Qty					
TBMCS: MCTSSA TBMCS software support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.263	0.258	0.255	0.279	
RDT&E Articles Qty					
TBMCS: Program management support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	9.582	0.000	
RDT&E Articles Qty					
UOC: Continue engineering and manufacturing development effort of production representative modules to include UOC Universal Communications Interface Module (UCIM).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	8.798	
RDT&E Articles Qty					
UOC: Engineering and manufacturing development effort including design of production representative modules to include UOC Universal Communications Interface Module (UCIM).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
UOC: Operational Testing.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.647	1.758	
RDT&E Articles Qty					
UOC: Program Management Support					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.813	
RDT&E Articles Qty					
UOC: Configuration analysis for CSSE, CE, and FICCS Unit Operations Centers. Support wireless technology upgrade, web-based training tool, and rotary generator. Funding for this effort in FY03 is provided under Project C2270 within this Program Element (PE).					
(U) Total \$	0.000	21.930	65.142	95.971	106.936

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Sys				C2273 Air Operations C2 Systems					
(U) FY 2003 President's Budget:		24.074	63.320	65.786	18.464						
(U) Adjustments from the President's Budget:											
(U) Congressional/OSD Program Reductions		-0.065	-3.778	-0.420	-2.792						
(U) Congressional Rescissions											
(U) Congressional Increases			5.600								
(U) Reprogrammings		-1.292		30.616	91.262						
(U) SBIR/STTR Transfer		-0.431									
(U) Minor Affordability Adjustment		-0.356		-0.011	0.002						
(U) FY 2004 President's Budget:		21.930	65.142	95.971	106.936						
CHANGE SUMMARY EXPLANATION:											
(U) Funding: Change in FY 04 and FY05 is due to realignment of programs within the Marine Corps.											
(U) Schedule: Not Applicable.											
(U) Technical: Not Applicable.											
(U) C. OTHER PROGRAM FUNDING SUMMARY:											
Line Item No. & Name		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) PMC, BLI#462000, ADCP PIP		0.364	0.322	0	0	0	0	0	0	0	0.686
(U) PMC, BLI#464000, ADCP PIP		0	0	0.275	0.175	0.055	0	0	0	0	0.505
(U) PMC, BLI #463600, AN/TPS-59		5.179	7.464	0	0	0	0	0	0	0	12.643
(U) PMC, BLI #465100, AN/TPS-59		0	0	18.211	24.536	7.480	11.951	38.914	50.443	Continuing	Continuing
(U) PMC, BLI #468900, CAC2S		0	0	0	0	3.909	39.198	41.735	41.805	Continuing	Continuing
(U) PMC, BLI #464000, CTN		0	0	0	8.270	22.537	34.901	43.970	68.590	Continuing	Continuing
(U) PMC, BLI #464000, MACCS SUSTAINMENT		0.035	3.034	4.023	6.729	11.990	1.870	1.416	1.345	0	30.442
(U) PMC, BLI #464000,TBMCS (CTAPS)		2.804	2.381	6.492	3.484	3.609	3.702	3.827	3.903	Continuing	Continuing
(U) PMC, BLI #463100, UOC		0	22.518	0.015	0	0	0	0	0	0	22.533
(U) PMC, BLI #419000, UOC		0	0	29.225	36.045	41.292	124.663	151.987	147.525	Continuing	Continuing
(U) Related RDT&E: Not Applicable.											

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems
(U) D. ACQUISITION STRATEGY: (U) ADCP: PM AD has an In Service Engineering Assessment (ISEA) with Crane. As part of the ISEA, Crane is tasked to develop, produce, and implement Engineering Change Proposals, or mods as identified in the new DOD 5000. In this case the Multi-Channel Interface (MCIU) interface to the TAOM (V)4 providing a Joint Tactical Data Link (TADIL J) capability to the TAOM (V)4 is being produced. (U) AN/TPS 59: Perform research and development for electronic protection and continuing resolution of Diminishing Manufacturing Sources (DMS) as well as replacement of transmitters on the 12 arrays over the FYDP. (U) CAC2S: The contracting strategy is centered on a family of options that will be exercised from PDRR through production based on contractor performance. The base contract is for PDRR and there will be options for SDD and Production. The PDRR contract is a Cost Plus Fixed Fee for 12 month period. Following the PDRR phase, an option for the SDD phase will be exercised. The ESDD will be Cost Plus Award Fee. After successful completion of SDD, a production option will be exercised. The production contracts will be Firm Fixed Price Successive Targets (Modified). (U) CRITICAL INFRASTRUCTURE: The program will be executed under Government Works contract by evaluating proposals that will be compatible with DVS-G and service programs. (U) MACCS SUSTAINMENT: The Direct Air Support Central (Airborne) Abbreviated Acquisition Program is utilizing a sole-source strategy with Computing Devices Canada, an owned subsidiary of General Dynamics, for procurement of Communications Distribution System equipment. Prototype development and system integration will be conducted by Naval Surface Weapons Center, Crane, IN. (U) CTN: The USMC's CTN acquisition strategy is to participate in the USN's program procurement and testing, making necessary modifications to support the Marine Corps' requirement. (U) SIAP is a systems engineering effort that will be utilized to reduce risk and increase interoperability for legacy and future C4ISR systems. (U) TBMCS: TBMCS is an ACAT 1AC, USAF Program with joint interest/oversight. It was mandated by the Chairman, Joint Chiefs of Staff in July 93 for Air Tasking Order (ATO) Interoperability among all Services. The USMC will not be letting any competitive contracts for TBMCS, but following the USAF lead, utilizing USAF TBMCS contracts and fielding only the joint modules of TBMCS. As USMC unique requirements are identified and funded, they will be provided to the USAF (to include funding) for inclusion within TBMCS utilizing the USAF cost plus fixed fee contract. (U) UOC: The UOC COC is a Competitively Awarded Contract for design (cost type) and FFP production options.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems
(U) E. Major Performers: (U) AN/TPS-59 Lockheed Martin Corp., Syracuse, NY. FY02 awarded Jan 02 for the AN/TPS-59 program to develop ECPs to incorporate electronic protection and new transmitters for the antenna and to initiate ECP false alarm adaption software. FY03 project contract with LMC in Mar 03 to develop ECPs for software improvements. UNIT OPERATIONS CENTER (UOC) FY02 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 02. FY02 Northrop Grumman, Stafford VA. Support services. Oct 02. FY03 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 03. FY04 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 04. FY05 General Dynamics Decision Systems, Scottsdale AZ. System development, demonstration, integration, test and evaluation. Apr 05. FY05 SPAWAR, Charleston SC. Support Services. Jan 05 COMMON AVIATION COMMAND AND CONTROL SYSTEM (CAC2S) FY02 Northrop Grumman, Stafford VA. Support services. Oct 02 FY02 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 02. FY03 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 03. FY04 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 04. FY05 Raytheon E-Systems, San Diego, CA. System development, demonstration, integration, test and evaluation. May 05. COMPOSITE TRACKING NETWORK (CTN) FY04 NSWC Crane, IN. Mobility platform integrator. Jan 04 FY04 Lockheed Martin, Syracuse NY. Radar integration. Jan 04 FY05 NSWC Crane In. Mobility platform integrator. Jan 05 CRITICAL INFRASTRUCTURE FY03 Government Works, Headquarters, Herndon, VA. Mar 03 MACCS SUSTAINMENT FY02 Litton Systems, Woodland Hills Ca. Contractor Logistics Support Services. Oct 02 FY03 Lockheed Martin, Syracuse NY. Engineering services. Jan 03 FY04 Lockheed Martin, Syracuse NY. Engineering services. Jan 04 FY05 Mission research. Engineering and software services. Jan 05		

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APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev				0206313M Marine Corps Communications Sys				C2273 Air Operations C2 Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CAC2S	WR	Center Charleston, SC	6.297	0.530	01/02	0.600	01/03	0.600	01/04	1.000	01/05	Continuing	Continuing	
CAC2S	RCP	Raytheon, San Diego CA	0.000	4.645	08/02	50.124	03/03	58.431	01/04	55.479	01/05	Continuing	Continuing	
CAC2S	RCP	SPAWAR	0.100	0.782	11/01	0.000		0.000		6.948	01/05	Continuing	Continuing	
CAC2S	RCP	EMA, Inc.	0.000	0.126	04/02	0.000		0.000		0.000		0.000	0.126	0.126
ADCP	WR	NSWC Crane, IN	1.746	0.107	03/02	0.125	03/03	0.125	03/04	0.088	01/05	Continuing	Continuing	
MACCS SUSTAINMENT	WR	NSWC Crane, IN	0.000	0.695	03/02	1.000	03/03	0.866	03/04	0.500	10/04	Continuing	Continuing	
MACCS SUSTAINMENT	CPFF	Lockheed, Ft	0.000	0.000		1.537	01/03	1.317	01/04	0.000		Continuing	Continuing	
MACCS SUSTAINMENT	T&M	Northrop Grumman	0.000	0.000		0.000		0.000		2.819	01/05	Continuing	Continuing	
MACCS SUSTAINMENT	RCP	Litton	0.000	1.531	04/02	0.000		0.000		0.000		Continuing	Continuing	
MACCS SUSTAINMENT	RCP	CRI	0.000	0.174	01/02	0.000		0.000		0.000		Continuing	Continuing	
MACCS SUSTAINMENT	CPFF	Mission Research	0.000	0.000		0.000		0.000		2.524	1/5	Continuing	Continuing	
SIAP	RCP	MCSC, Quantico, VA	11.400	0.000		0.000		9.040	01/04	9.033	01/05	Continuing	Continuing	
AN/TPS-59	C/CPFF	Lockheed,Syracuse NY	18.736	4.210	01/02	3.439	03/03	0.562	01/04	0.000		Continuing	Continuing	
AN/TPS-59	RCP	MCSC, Quantico, VA	0.000	5.907	07/02	2.100	04/03	0.000		0.000		0.000	8.007	8.007
TBMCS	MIPR	ESC, Hanscom AFB	0.280	0.393	03/02	0.000		0.000		0.246	01/05	Continuing	Continuing	
TBMCS	WR	NSWC, Crane, IN	0.000	0.000		0.150	03/03	0.159	03/04	0.200	01/05	Continuing	Continuing	
TAOM	RCP	MCSC, Quantico, VA	2.879	0.000		0.000		0.000		0.000	0.000	0.000	2.879	2.879
CTN	WR	NSWC, Crane, IN	1.955	0.000		0.000		7.549	01/04	2.735	01/05	Continuing	Continuing	
CTN	RCP	Raytheon	0.365	0.000		0.000		0.700	01/04	1.000	01/05	Continuing	Continuing	
CTN	RCP	Solipsys	1.031	0.000		0.000		0.050	01/04	0.215	01/05	Continuing	Continuing	
CTN	RCP	Lockheed	0.482	0.000		0.000		0.500	01/04	0.000		Continuing	Continuing	
CTN	WR	NSWC Dahlgren	0.590	0.000		0.000		0.025	01/04	1.920	01/05	Continuing	Continuing	
UOC	WR	SPAWAR	4.891	0.000		0.000		0.702	01/04	3.813	01/05	Continuing	Continuing	
UOC	WR	MCSC, Quantico, VA	1.412	0.000		0.000		0.320	01/04			Continuing	Continuing	
UOC	RCP	General Dynamics		0.000		0.000		9.582	01/04	8.798	01/05	Continuing	Continuing	
CRITICAL INFRASTRUCTURE	RCP	GovWorks HQ Herndon VA				2.000	03/03					Continuing	Continuing	
Subtotal Product Development			52.164	19.100		61.075		90.528		97.318		Continuing	Continuing	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	FY 03 Total Cost	Target Value of Contract
CAC2S	WR	MCSC, Quantico, VA	0.171	0.128	11/01	0.150	01/03	0.150	01/04			0.000	0.599	0.321
CAC2S	WR	MCTSSA, CPndltm,CA	0.080	0.010	12/01	0.050	01/03	0.050	01/04	1.983	01/05	Continuing	Continuing	
CAC2S	WR	MCLB Albany GA	0.016	0.005	01/02	0.005	01/03	0.005	01/04			Continuing	Continuing	
CAC2S	WR	3 rd MAW San Diego, CA	0.016	0.000	01/02	0.005	01/03	0.005	01/04			Continuing	Continuing	
CAC2S	WR	NWSC Crane, IN	0.577	0.556	06/02	1.000	01/03	1.000	01/04	0.321	01/05	Continuing	Continuing	
CAC2S	WR	MAGCC, 29 Palms, CA	0.017	0.005	06/02	0.005	01/03	0.005	01/04			Continuing	Continuing	

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APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev				0206313M Marine Corps Communications Sys				C2273 Air Operations C2 Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete Continuing	Total Cost Continuing	Target Value of Contract
CAC2S	WR	2nd MAWCh Pt, NC	0.075	0.000		0.020	01/03	0.020	01/04					
CAC2S	WR	MarForRes NO, LA	0.009	0.000		0.005	01/03	0.005	01/04	0.000		Continuing	Continuing	
CAC2S	WR	MCAS Yuma, AZ	0.012	0.000		0.005	01/03	0.005	01/04	0.000		0.005	0.027	0.027
CAC2S	RCP	MCOTEA	0.000	0.250	01/02	0.125	01/03	0.125	01/04	0.321	01/05	Continuing	Continuing	
CAC2S	RCP	MCSC SE&I	0.000	0.000		0.000		0.000		0.000				
MACCS Sustainment	WR	MCTSSA, CPndltn,CA	0.000	0.000		0.150	01/03	0.150	01/04	0.000		Continuing	Continuing	
MACCS Sustainment	WR	MCAS Yuma, AZ	0.000	0.005	01/02	0.000		0.000		0.000		0.000	0.005	0.005
MACCS Sustainment	WR	MCCES, 29 Palms	0.000	0.007	01/02	0.000		0.000		0.000		0.000	0.007	0.007
MACCS Sustainment	WR	NAVAIR, Pax River	0.000	0.036	01/02	0.000		0.000		0.000		0.000	0.036	0.036
MACCS Sustainment	WR	3rd MAW	0.000	0.020	01/02	0.000		0.000		0.000		0.000	0.020	0.020
MACCS Sustainment	MIPR	Warner Robins AFB	0.000	0.118	01/02	0.000		0.000		0.000		0.000	0.118	0.118
MACCS Sustainment	WR	MCSC	0.000	0.033	01/02	0.000		0.000		0.000		0.000	0.033	0.033
ADCP	WR	MCTSSA, CPndltn,CA	0.123	0.088	01/02	0.050	01/03	0.038	01/04	0.035	01/05	Continuing	Continuing	
ADCP	WR	MCSC, Quantico, VA	0.040	0.030	01/02	0.030	01/03	0.030	01/04			Continuing	Continuing	
TBMCS	WR	MCTSSA, CPndltn,CA	0.050	0.033	01/02	0.000		0.000		0.035	01/05	0.000	0.118	0.118
TBMCS	WR	3rd MAW El Toro, CA	0.075	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
TBMCS	WR	MCSC, Quantico, VA	0.103	0.102	01/02	0.040	01/03	0.040	01/04			Continuing	Continuing	
TBMCS	WR	MarForRes NO, LA	0.009	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
TBMCS	WR	CG 1st MAW	0.001	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
TBMCS	MIPR	ESC, Hanscom AFB,	0.000	0.000		0.276	01/03	0.273	01/04			Continuing	Continuing	
TBMCS	WR	2nd MAWCh Pt, NC	0.000	0.000		0.015	01/03	0.015	01/04			Continuing	Continuing	
CTN	WR	MCLB Albany GA	0.020	0.000		0.000		0.010	01/04			Continuing	Continuing	
CTN	MIPR	STA	0.432	0.000		0.000		0.160	01/04			Continuing	Continuing	
CTN	WR	CG 1 st MAW	0.014	0.000		0.000		0.005	01/04			Continuing	Continuing	
CTN	WR	MCSC, Quantico, VA	0.085	0.000		0.000		0.040	01/04			Continuing	Continuing	
Subtotal Support			1.925	1.426		1.976		2.176		2.695		Continuing	Continuing	
Remarks:														

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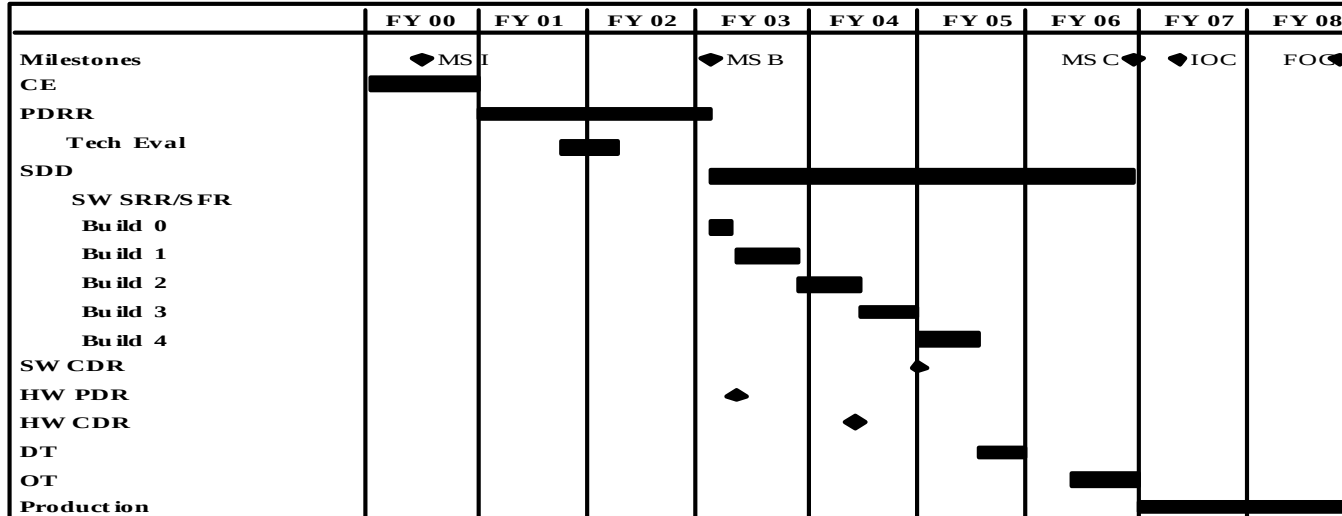
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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communications Sys					C2273 Air Operations C2 Systems							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 03 Cost to Complete	FY 03 Total Cost	Target Value of Contract	
MACCS Sustainment	RCP	MCTSSA, CPndltn,CA	0.000	0.000		0.061	01/03	0.061	01/04			Continuing	Continuing		
CTN	WR	MCTSSA, CPndltn,CA	0.003	0.000		0.000		0.032	01/04			Continuing	Continuing		
CTN	WR	MACS-24	0.087	0.000		0.000		0.012	01/04			Continuing	Continuing		
CTN	WR	DCMC	0.022	0.000		0.000		0.002	01/04			Continuing	Continuing		
CTN	WR	Port Hueneme	0.018	0.000		0.000		0.018	01/04			Continuing	Continuing		
Subtotal T&E			0.130	0.000		0.061		0.125		0.000		Continuing	Continuing		
Remarks:															
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 03 Cost to Complete	FY 03 Total Cost	Target Value of Contract	
TBMCS	CPFF	Logicon	0.309	0.175	01/02	0.230	01/03	0.230	01/04	0.279	01/05	Continuing	Continuing		
CAC2S	IDIQ	Logicon	2.734	0.801	10/01	1.000	01/03	1.000	01/04	2.276	01/05	Continuing	Continuing		
CAC2S	FFP	Mevatec, Crstl City VA	0.250	0.229	07/02	0.800	01/03	0.800	01/04	2.000	01/05	Continuing	Continuing		
CAC2S	RCP	KCI	0.000	0.199	02/02	0.000				0.000		0.000	0.199		
CTN	IDIQ	Logicon	0.591	0.000		0.000		0.487	01/04	0.610	01/05	Continuing	Continuing		
UOC	IDIQ	Logicon	3.396	0.000		0.000		0.525	01/04	1.758	01/05	Continuing	Continuing		
UOC	FFP	Mevatec, Crstl City VA	0.064	0.000		0.000		0.100	01/04	0.000		Continuing	Continuing		
Subtotal Management			7.344	1.404		2.030		3.142		6.923		Continuing	Continuing		
Remarks:															
Total Cost				21.930		65.142		95.971		106.936		Continuing	Continuing		

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Exhibit R-4/4a Schedule Profile/Detail			DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME	
RDT&E, N /BA 7 Operational Systems Development	0206313M Marine Corps Communications Sys	C2273 Air Operations C2 Systems	

CAC2S Macro Program Schedule



<u>Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Comp</u>	<u>Total Cost</u>
(APPN, BLI #, NOMEN)										
(U) RDT&E,N, C2273	8.266	53.894	62.201	70.328	28.294	64.189	12.041	8.730	Continuing	Continuing
(U) PMC, BLI# 468900, CAC2S	0.000	0.000	0.000	0.000	3.909	39.198	41.735	41.805	Continuing	Continuing

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Exhibit R-4/4a Schedule Profile/Detail						DATE:	February 2003
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME	
RDT&E, N /BA 7 Operational Systems Development			0206313M Marine Corps Communications Sys			C2273 Air Operations C2 Systems	

CTN Macro Program Schedule

Fiscal Year	FY00				FY01				FY02				FY03				FY04				FY05				FY06				FY07				FY08			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Milestones																																				
Phases																																				
Concept & Tech																																				
Sys Dev & Demo																																				
DT																																				
IOT&E																																				
Production																																				
Delivery																																				

Program Funding Summary

(APPN, BLI#, NOMEN)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Comp	Total Cost
(U) RDT&E,N, C2278	2.503	11.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14.203
(U) RDT&E,N, C2273	0.000	0.000	9.590	6.480	6.462	1.482	1.492	1.014	Continuing	Continuing
(U) PMC, BLI# 464000, CTN	0.000	0.000	0.000	8.270	22.537	34.901	43.970	68.590	Continuing	Continuing

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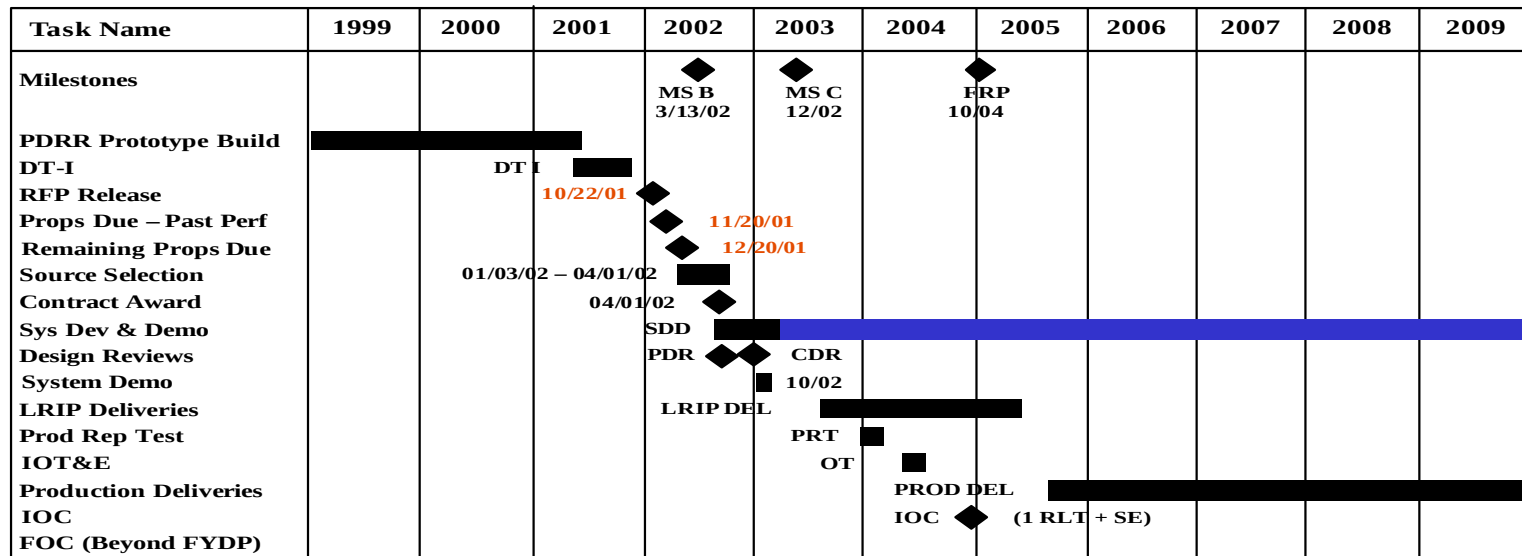
Exhibit R-4/4a Schedule Profile/Detail			DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems	

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Exhibit R-4/4a Schedule Profile/Detail			DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Systems Development	PROGRAM ELEMENT 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems	

UOC Macro Program Schedule



<u>Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Comp</u>	<u>Total Cost</u>
(APPN, BLI #, NOMEN)										
(U) RDT&E,N, C2270	11.112	2.353	0	0	0	0	0	0	0	13.465
(U) RDT&E,N, C2273	0	0	11.229	14.369	15.823	23.063	10.866	6.335	Continuing	Continuing
(U) PMC, BLI# 463100, UOC	0	22.518	0.015	0	0	0	0	0	0	22.533
(U) PMC, BLI# 419000, UOC	0	0	29.225	36.045	41.292	124.663	151.987	147.525	Continuing	Continuing

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2003

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys				C2274 Intelligence C2 Warfare Systems					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost To Complete	Total Program
Project Cost	8.575	7.987	9.727	5.655	5.468	4.562	4.253	4.633	Cont	Cont
RDT&E Articles Qty										

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

(U) Command and Control (C2) Warfare Project includes the following tactical electronic intercept, direction finding, and electronic attack systems:

1. The Tactical Electronic Reconnaissance Processing and Evaluation System (TERPES) is used to process, sort, analyze, display and correlate electronic surveillance and electronic attack data collected by EA-6B aircraft and maintains the Tactical Electronic Orders of Battle.
2. The Mobile Electronic Warfare Support System, Product Improvement Program (MEWSS-PIP) will be used to collect and process communication and non-communication signals and provide electronic attack capability from a mobile ground platform.
3. Team Portable Collection System (TPCS) upgrade is a semi-automated, team transportable signals intelligence system that provides communications intercept, radio direction finding analysis and reporting to the Marine Air Ground Task Force (MAGTF) Commander.
4. The Radio Reconnaissance Equipment Program (RREP) provides the Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. Continuing with an evolutionary acquisition approach, the third suite RREP-SS-2 will provide the RRP's with the capability to conduct SIGINT/EW operations in support of Marine Air Ground Task Force (MAGTF) Commanders during advance force special operations, and other special purpose missions where the use of conventional Radio Battalion assets are not feasible. RREP-SS-2 is a ruggedized, modular; man packable system specifically designed utilizing emerging NDI/COTS/GOTS technology for RRP operations, particularly those conducted under the most austere conditions. The RREP SS-3 will be fielded in the 1st Qtr FY04. It will have the added capability to intercept advanced wireless targets identified by the NSA to be operated from remoted positions. SS-3 will extend its life cycle to six years and product improvements will focus on new software and DSP technologies which may be incorporated into the existing system. This approach allows the program to utilize the major components for the entire life-cycle while still keeping pace with emerging Threats and technologies.
5. CESAS (FLAMES) - The Communication Emitter Sensing and Attacking System (CESAS) will be a system of COTS/GOTS designed to support the MAGTF Commander in conducting operations. It will provide the capability to effectively sense/detect and attack, through the use of electromagnetic or directed energy, the enemy's communication systems in support of the Commander's Command and Control Warfare plan. The system will replace for the existing AN/ULQ-19 and will assume the mission of sensing and denying the enemy the use of the electromagnetic spectrum, thereby disrupting his command and control system. Though primarily HMMWV-mounted, CESAS will also be capable of both seaborne and airborne deployment and employment, enhancing the Radio Battalion's ability to support Operational Maneuver from the Sea. The CESAS shall provide the capability to operate within the bandwidth of 20 to 1500 MHz (Threshold)k 2MHz to 2500 MHz (Objective) against enemy emitters that use modern modulation schemes.
6. FY02 DERF Funding RREP \$800K. Funds for Test and Evaluation of Digital Receiver Technology (DRT) and Test and approval of Lithium Battery.
7. FY02 DERF Funding FLAMES (CESAS) \$1.5M. Funds are for Research Development, Engineering, Design, Intergrate, build and test 3 Communication Emitter Sensing and Attacking System (CESAS).

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2274 Intelligence C2 Warfare Systems		
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250
RDT&E Articles Qty				
CESAS - Perform integration efforts of Development items to include Antenna and MCREWS Training equipment.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.121
RDT&E Articles Qty				
CESAS - Research and Development and Integration of software applications unique to System Control.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.200
RDT&E Articles Qty				
CESAS - Research and Development Directed Energy and Directional Attack Antennas.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.100
RDT&E Articles Qty				
CESAS - Begin Research and Development of training materials and training documentation.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.050
RDT&E Articles Qty				
CESAS - Integration of Mission Management Software with existing ESAS software to provide dynamic base capability for system software (ESAS)				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.100
RDT&E Articles Qty				
CESAS - Research and Development of Training Equipment; MCREWS modification for USQ-146 real time simulation equipment to provide a "Miles Gear" type application for Electronic Attack equipment and Victim Receiver interface.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.300
RDT&E Articles Qty				
CESAS - Program support and documentation Development and Maintainance.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.050
RDT&E Articles Qty				
CESAS - Program Management Support.				

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EXHIBIT R-2a, RDT&E Project Justification					DATE:
					February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2274 Intelligence C2 Warfare Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.245	0.000	0.000	0.000	
RDT&E Articles Qty					
MEWSS PIP: LAV Mobility and Endurance testing.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.913	0.809	1.000	0.403	
RDT&E Articles Qty					
MEWSS PIP: System software enhancements and Pre-Planned Product Improvement (P3I).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	3.443	3.144	1.000	0.000	
RDT&E Articles Qty					
MEWSS PIP: ELINT System enhancements.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.900	3.502	0.300	
RDT&E Articles Qty					
MEWSS PIP: Operational Readiness enhancements.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.150	0.000	0.000	0.000	
RDT&E Articles Qty					
TPCS Upgrade: Mod Kit 7 & 5 Test and Evaluation (MCOTEA).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.150	0.000	0.000	0.000	
RDT&E Articles Qty					
TPCS Upgrade: MASS Phase III SBIR (Sonetech).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.030	0.000	0.000	0.000	
RDT&E Articles Qty					
TPCS Upgrade: Mod Kit 7 Road Test (ATC).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.144	0.000	0.000	0.000	
RDT&E Articles Qty					
TPCS Upgrade: Program Management support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.242	0.000	0.000	
RDT&E Articles Qty					
TPCS Upgrade: System Engineering and Technical Assistance (SETA) (CSC).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.342	0.000	0.000	
RDT&E Articles Qty					
TPCS Upgrade: Software upgrades/system enhancements.					

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EXHIBIT R-2a, RDT&E Project Justification					DATE:
					February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2274 Intelligence C2 Warfare Systems		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.690	0.510	1.044	0.923	
RDT&E Articles Qty					
TERPES: Continue research on COE compliance, research for Tactical Network Protocol (TNP), research of interface software for Integrated Broadcast Receivers (IBRs), and Integrated Broadcast Service (IBS) to allow TERPES to receive joint common message formats, configuration management support; hardware engineering support services concentrating on reductions of size, weight, and power requirements.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	1.537	0.859	1.327	1.021	
RDT&E Articles Qty					
TERPES: Research for TERPES software applications, hardware and software integration research, investment for R&D equipment and facilities; work to integrate the newer integrated broadcast receivers (IBR)s (Joint Tactical Terminal (JTT) or research on TADIL J). Advanced Communications Suite, Sensitive Compaartmented Information (SCI) workstation, and system accreditation.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.800	0.610	1.127	0.950	
RDT&E Articles Qty					
TERPES: Research TERPES software to provide improvements in the interfaces and interoperability with the EA-6B Improved Capabilities (ICAP) II and III aircraft, (TEPP/TSP application); improve overall system performamance (Tactical Data Correlation, etc); continue to research COE 4.X baseline; research interfaces and interoperability requiremnts and solutions for the EA-6B mission plannng and joint mission planning environments and systems.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.116	0.415	0.412	0.463	
RDT&E Articles Qty					
TERPES: Program Management Support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.100	0.000	0.000	0.000	
RDT&E Articles Qty					
RREP: Integration GOT/COTS electronic attack (EA) capability (SS-2).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.257	0.156	0.000	0.000	
RDT&E Articles Qty					
RREP: Integration GOTS/COTS electronic attack (EA) capability (SS-3).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.315	0.424	
RDT&E Articles Qty					
RREP: Research and development of the RREP SS-3 PIP					
(U) Total \$	0.000	8.575	7.987	9.727	5.655

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EXHIBIT R-2a, RDT&E Project Justification											DATE: February 2003																																																																																																																																																																																																																																																									
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	FY2002	FY2003	FY2004	FY2005																																																																																																																																																																																																																																																																
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(U) Minor Affordability Adjustments	-0.125		-0.008	-0.007																																																																																																																																																																																																																																																																
(U) FY 2004 President's Budget:	8.575	7.987	9.727	5.655																																																																																																																																																																																																																																																																
CHANGE SUMMARY EXPLANATION:																																																																																																																																																																																																																																																																				
(U) Funding: See Above.																																																																																																																																																																																																																																																																				
(U) Schedule: Not Applicable.																																																																																																																																																																																																																																																																				
(U) Technical: Not Applicable.																																																																																																																																																																																																																																																																				
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost																																																																																																																																																																																																																																																										
(U) PMC BLI 463600 Modification Kits MEWSS	2.617	25.590	20.786	2.528	1.352	0.511	0.000	0.000	Continuing	Continuing																																																																																																																																																																																																																																																										
(U) PMC BLI 474700 Intell Suppt Eq RREP	0.000	3.939	0.000	0.000	4.194	0.000	0.000	4.228	0.000	12.361																																																																																																																																																																																																																																																										
(U) PMC BLI 474700 Intell Suppt Eq TPCS-MPC	0.000	0.000	0.000	7.086	8.086	7.771	5.929	0.275	0.000	29.147																																																																																																																																																																																																																																																										
(U) PMC BLI 474900 Mod Kits INTEL TERPES	1.656	0.000	2.828	0.000	3.022	0.000	3.182	0.000	0.000	10.688																																																																																																																																																																																																																																																										
(U) PMC BLI 463600 FLAMES (CESAS)	0.000	2.936	0.000	1.000	4.194	4.099	0.488	1.385	0.000	14.102																																																																																																																																																																																																																																																										

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2003

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

PROJECT NUMBER AND NAME

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

0206313M Marine Corps Communications Sys

C2274 Intelligence C2 Warfare Systems

(U) D. ACQUISITION STRATEGY TERPES: The acquisition of components for the TERPES upgrade refreshes will maximize the use of existing equipment, NDI/COTS/GOTS/GFE equipment and software. The integration effort for TERPES hardware and software will be accomplished through the TERPES System Support Activity, Naval Air Warfare Center - Weapons Division, Pt. Mugu, CA. These efforts are directed by the Program Manager for Intelligence Systems, MAGTF C4ISR Product Group, Marine Corps Systems Command. This strategy accomplishes several goals: standardization of equipment and software; use equipment that can be acquired and fielded quickly, reduction of logistics requirements, and reduce cost of software maintenance.

(U) D. ACQUISITION STRATEGY MEWSS PIP: The MEWSS PIP initiates Marine Corps Systems Command-administered contracts as follow-on to the Army CECOM Intelligence and Electronic Warfare Common Sensor (IEWCS) contract used for development/fielding of the three MEWSS PIP LRIP vehicles. These contracts are sole source to Lockheed Martin Systems Integration in Owego, New York.

(U) D. ACQUISITION STRATEGY TPCS: The ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. The contract is a Contract Cost Plus Fixed Fee.

(U) D. ACQUISITION STRATEGY RREP: The RREP will incorporate and integrate cutting edge technologies through the use of Commercial off the Shelf (COTS) components to include Marine Corps Common Hardware components and Government off the Shelf (GOTS) DII COE compliant software. Contract is Cost Plus Fixed Fee (CPFF).

(U) D. ACQUISITION STRATEGY CESAS: Due to the technical maturity of the equipment available, coupled with the relative low risk of the program, an AAP will be pursued. System engineering will be performed by SPAWAR, Charleston, SC. AN/USQ-146 systems will be acquired via a sole source contract between Rockwell Collins and MCSC. Configuration of equipment to meet required operation capabilities will be performed by Rockwell-Collins prior to delivery. Required modification kits will be developed by Rockwell-Collins as part of the AN/USQ-146 purchase, using designs developed by SSCC. Fielding will be conducted using support from Rockwell-Collins, a support contractor and SSCC. ILS planning and life cycle supportability will be implemented by MCSC and MARCORLOGBASES, Albany GA. Contractor Logistics Support will be used for depot support of the system.

(U) E. MAJOR PERFORMERS:

MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM, PRODUCT IMPROVEMENT PROGRAM (MEWSS-PIP)

FY02 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Aug 02

EDO Reconnaissance and Surveillance Systems, Morgan Hill CA, Funds for ELINT enhancements Sep 02

Penn State Univ, State College, PA Funds for ELINT enhancements Sep 02

FY03 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Nov 02

SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Software enhancements and P3I. Nov 02

MCOTEA, Quantico, VA - Provide funds for operational Assessment, Mar 03.

IEWTD, Ft Huachuca, AZ - Provide funds for Developmental Testing Support, Jan03

EDO Reconnaissance Systems and Surveillance System, Morgan Hill CA, Provide funds for Elint Enhancements, Mar 03

Penn State Univ, State College, PA - Provide funds for ELINT Enhancements Mar 03

FY04 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Nov 03

EDO Reconnaissance and Surveillance Systems, Morgan Hill CA, Funds for ELINT enhancements Nov 03

Penn State Univ, State College, PA Funds for ELINT enhancements Nov 03

SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements. Nov 03

FY05 LOCKHEED MARTIN, Owego NY Provide funds for software enhancements and P3I support. Nov 04

SPACE AND NAVAL WARFARE SYSTEMS CENTER (SPAWAR), Charleston, SC. Legacy MEWSS readiness enhancements. Nov 04

TEAM PORTABLE COLLECTION SYSTEM (TPCS) Upgrade

FY02 HTL, Bedford NH Funds for Joint effort with PM-CS for SS-B development

MARCORSYSCOM, Quantico VA Funds for program management and operational test support.

FY03 NORTHROP GRUMMAN INFORMATION TECH (NGIT), Stafford VA, SETA support for systems engineering and program management.

COMPUTER SCIENCE CORP, Dumfries, VA SETA support for Configuration Management (CM)

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2274 Intelligence C2 Warfare Systems	
(U) E. MAJOR PERFORMERS (Continued): TACTICAL ELECTRONIC RECONNAISSANCE PROCESSING AND EVALUATION (TERPES) FY02 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research, software security certification and accreditation. LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software to maintain compatibility with EA-6B Improved Capabilities (ICAP) II and III aircraft. CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance and Tactical Network Protocol (TNP). FY03 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware and software integration research. LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems. CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance, hardware; software configuration management, and software testing. FY04 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research. LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems. CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance; research of interface software for Integrated Broadcast Receivers (IBRs). FY05 NAVAL AIR WARFARE CENTER (NAWC), Pt Mugu CA. Provide funds for hardware, software and integration research. LOCKHEED MARTIN, Denver CO. Provide funds for research on TERPES software applications to provide improvement in the interfaces and interoperability with the EA-6B and mission planning systems. CALIFORNIA MICROWAVE, Woodland Hills CA. Provide funds for Common Operating Environment (COE) compliance; research of interface software for Integrated Broadcast Receivers (IBRs). RADIO RECONNAISSANCE EQUIPMENT PROGRAM (RREP) FY02 MARCORSYSCOM, Quantico VA Funds for program management and operational test support. Oct 02 FY02 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds for engineering and program management support for Suite-3. Nov 02 FY03 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds for engineering and program management support for Suite-3. Nov 03 FY04 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds engineering and program management support for Suite-3. Nov 04 FY05 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds engineering and program management support for Suite-3. Nov 05			

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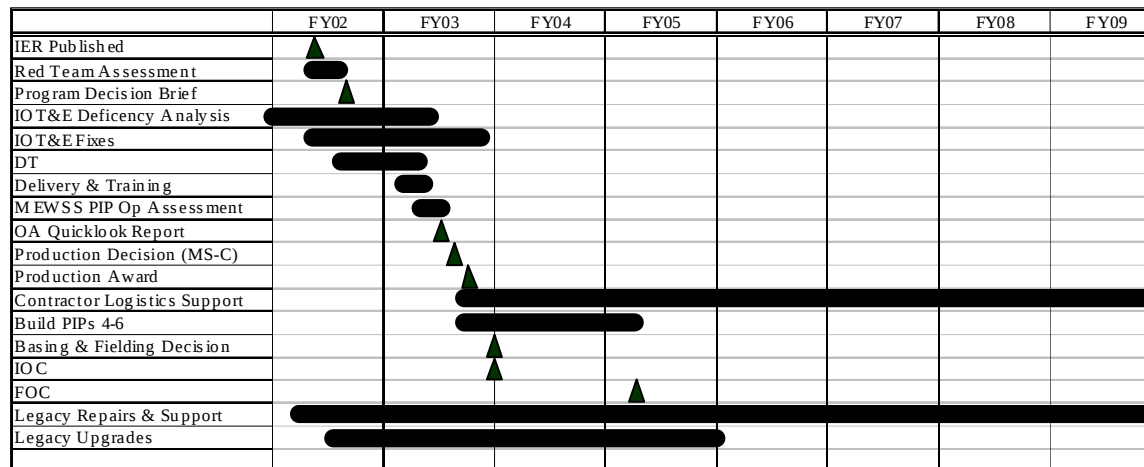
Exhibit R-3 Cost Analysis								DATE: February 2003						
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev				0206313M Marine Corps Communication Systems				C2274 Intelligence C2 Warfare Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MEWSS	CPFF	Lockheed Martin	11.216	4.401	11/01	4.853	11/02	5.502	11/03	0.703	11/04	Continuing	Continuing	
TPCS Upgrade	RCP	HTL	0.660	0.150	01/02	0.342	01/03					Continuing	Continuing	
TERPES	RCP	NGO-CAL Mic	0.262	0.699	02/02	0.610	10/02	1.044	10/03	0.923	10/04	Continuing	Continuing	
TERPES	RCP	Lockheed Martin	0.275	0.800	06/02	0.859	10/02	1.127	10/03	1.021	10/04	Continuing	Continuing	
TERPES	WR	NAWC, Pt. Mugu CA	2.089	1.166	01/02	0.389	10/02	1.327	10/03	0.950	10/04	Continuing	Continuing	
TERPES	RCP	PRB/COMPTEK		0.090	06/02	0.121	10/02					Continuing	Continuing	
RREP	WR	MCSC, VA		0.025	10/02							Continuing	Continuing	
RREP	RCP	NSWC, Crane		0.332	01/02	0.156	02/03	0.315	02/04	0.424	02/05	Continuing	Continuing	
CESAS	WR	SPAWARSYSCEN								0.250	10/04	Continuing	Continuing	
CESAS	FFP	DAC, Wdbg								0.121	10/04	Continuing	Continuing	
CESAS	CPFF	Antenna Res, MD								0.200	10/04	Continuing	Continuing	
CESAS	CPFF	Radio Recon Tech								0.100	10/04	Continuing	Continuing	
CESAS	FFP	BTG/Titan, Fairfax Va								0.050	10/04	Continuing	Continuing	
CESAS	T&M	RAS Eng Campbell, CA								0.100	10/04	Continuing	Continuing	
Subtotal Product Development			14.502	7.663		7.330		9.315		4.842		Continuing	Continuing	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
TPCS Upgrade	WR	MCSC	0.436	0.239	10/01	0.242	10/02					Continuing	Continuing	
TPCS Upgrade	RCP	ARMY		0.040	12/01							Continuing	Continuing	
TPCS Upgrade	WR	SPAWARSYSCEN		0.045	12/01							Continuing	Continuing	
TERPES	WR	NAWCWPNS, Pt Mugu	0.199	0.200	01/02							Continuing	Continuing	
TERPES	WR	NG-IT	0.150	0.113	10/01	0.355	10/02	0.312	10/03	0.363	10/04	Continuing	Continuing	
TERPES	RCP	DAC, Wdbg	0.677	0.075	06/02	0.060	10/02	0.100	10/03	0.100	10/04	Continuing	Continuing	
CESAS	WR	NG-IT Stafford, VA								0.300	10/04	Continuing	Continuing	
Subtotal Support			1.462	0.712		0.657		0.412		0.763		Continuing	Continuing	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MEWSS	RCP	Army		0.200	12/02									
Subtotal T&E			0.000	0.200		0.000		0.000		0.000		Continuing	Continuing	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CESAS	WR	MCSC								0.050	10/04	Continuing	Continuing	
Subtotal Management			0.000	0.000		0.000		0.000		0.050		0.000	0.050	
Remarks:														
Total Cost				8.575		7.987		9.727		5.655		Continuing	Continuing	

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Exhibit 4/4a Schedule Profile/Detail		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2274 Intelligence C2 Warfare Systems

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MEWSS PIP Schedule



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Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC, BLI# 463600 Mod Kits MEWSS

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N	4.601	4.853	5.502	0.703	0.470	0.000	0.000	0.000	0.000	16.129
(U) PMC, BLI# 463600 Mod Kits MEWSS	2.617	25.590	20.786	2.528	1.352	0.511	0.000	0.000	Continuing	Continuing

R-1 SHOPPING LIST - Item No. 187

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Exhibit R-4/4a, Schedule Profile/Detail
(Exhibit R-4/4a, page 68 of 80)

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Exhibit 4/4a Schedule Profile/Detail		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev	PROGRAM ELEMENT 0206313M Marine Corps Communication Systems	PROJECT NUMBER AND NAME C2274 Intelligence C2 Warfare Systems

RREP MILESTONE SCHEDULE

EVENT	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
SS-3 MS-B	3Q								
SS-3 MS-C		3Q							
SS-3 IOC/FOC			1Q						
SS-3 PIP MS B			1Q						
SS-3 PIP MS C					2Q				
SS-3 PIP IOC/FOC						1Q			
SS-4 MS B						2Q			
SS-4 MS C								2Q	
SS-4 IOC/FOC									1Q

<u>Program</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>										
(U) RDT&E,N	0.357	0.156	0.315	0.424	0.432	0.435	0.441	0.452	Continuing	Continuing
(U) PMC BLI 474700 Intell Suppt EQ RREP	0.000	3.939	0.000	0.000	4.194	0.000	0.000	4.228	0.000	12.361

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems					C2275 Radio Systems				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	0.000	0.584	8.881	8.698	4.878	4.337	4.226	3.548	Cont	Cont
RDT&E Articles Qty										

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

(U) Joint Tactical Radio System - JTRS is a OSD-mandated program a Family of Joint Multi-Channel/Multi-Mode, Software-Defined, Reprogrammable Tactical Radio Systems. Providing high capacity line of sight (LOS) and beyond line of sight (BLOS) plain and secure voice, data, and video while operating in frequency bands from 2 MHz to 2 GHz. Providing network connectivity across the radio frequency (RF) spectrum and providing the means for required tactical digital information exchanges.

Block 1: Interim Handheld/Manpack and Data Radios. Includes 3 radio systems: the High Frequency Man-pack Radio (HFMR), the Tactical Handheld Radio (THHR), and software upgrades/maintenance for Enhanced Position Location Reporting System (EPLRS) radios.

Block 2: Ground Vehicular/Rotary Wing, scaleable to 6 Channels (US Army – Cluster 1): Expeditionary Maneuver Warfare Air Ground Over the Horizon (EMW A/G OTH) Communications Vehicle (initially replacing systems beyond lifecycle: AN/MRC-138, AN/VRC-83), and C2 platforms that require multiple channels in multiple bands (LAV-C2, UOC, and AAAY).

Block 3: Handheld/Man-pack, 1 or 2 Channels (USSOCOM – Cluster 2): Multipurpose Handheld and Manpacks (initially replacing systems beyond lifecycle: AN/PRC-68, PRC-104, PRC-113). These radios should be available in FY06-FY07.

Tactical Elevated Antenna Mast System (TEAMS) is a single HMWWV mounted 100' telescoping antenna mast replacing the two AN/MRC- 142 50' antennas. TEAMS provides a safer more efficient mast to allow up to twice the current height capability to overcome obstructions caused by over head canopy and obstructing ridges which eliminates the need to set up additional relay sites. TEAMS will be employed with AN/MRC-2 then JTRS when the AN/MRC-142 is replaced by JTRS.

(U) Tactical Satellite Comm Terminal - LMST- An Air Force program with PM Milsatcom (Army) managing contract with Harris Corp. The Lightweight Multiband Satellite Terminal (LMST) is a tri-band SATCOM terminal mounted in transit cases that will augment the current GMF SATCOM and at the same time, provide a commercial satellite capability. SHF Replacement (Wideband SHF) - This is a DoD (Army lead) Quad-band SHF satellite communications terminal that is intended to replace the current GMF satellite communications terminals. It will be a quad-band, HMMWV mounted terminal capable of taking full advantage of the Wideband Gapfiller satellite constellation. Its mission is to support all USMC satellite communications requirements including MAGTF commanders, FICCS, and MEU deployments. It will provide the USMC with DoD and Allied interoperability.

(U) MILSTAR Advanced Satellite Terminal (SECURE MOBILE ANTI-JAM RELIABLE TACTICAL TERMINAL (SMART-T)) - This terminal operates with MILSTAR compatible communications payloads and transmits an extremely high frequency (EHF) uplink signal and receives a super high frequency (SHF) downlink signal to provide the MAGTF commander with robust, low probability of intercept, jam resistant communications.

(U) Legacy Communications/Electronics Modifications and Sustainment encompass post production sustainment of fielded tactical communication and networking systems and service life extension programs (SLEP) of aging communications equipment reaching the end of there lifecycle. The post production sustainment provides necessary engineering and logistic support to maintain the existing operational capability above threshold operational readiness. The support provides equipment specialists, configuration management, supply support coordination and control, depot maintainance control and warranty administration. There are three SLEP/supportability upgrades required for this POM cycle. These are the AN/TRC-170 Tropospheric Scatter Microwave Radio Terminal, the Unit Level Circuit Switch (ULCS) and the AN/PSC-5 "Shadowfire" modification. The AN/TRC-170 provides secure digital trunking between major nodes of the TRI-TAC communications network with a range of over 100 miles and will reach it's end of service life in FY05. The ULCS (TTC-42, SB-3865 and SB-3614) require sustainment and modifications to continue the operating forces capability until TSM is fielded. The AN/PSC-5 Mod allows for the fielded AN/PSC-5 to supported past FY04.

(U) Radio Battalion Mods - DERF funding \$2M. Funds are for Test and Evaluation of the Testbed-Sigint Adaptable Mobile Shelter to include Signal Simulators and Fuel Cells.

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EXHIBIT R-2a, RDT&E Project Justification			DATE:	
			February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems		C2275 Radio Systems	
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.237	1.100	1.100
RDT&E Articles Qty				
JTRS: Migration/Integration Studies and Analysis. Manpack/Handheld JTRS.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.347	0.619	0.619
RDT&E Articles Qty				
JTRS: Program Support and Management.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	3.472	4.578
RDT&E Articles Qty				
JTRS: Gnd Vehicular Cluster 1 EMD Radio Manufacturing.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.725	1.313
RDT&E Articles Qty				
JTRS: Gnd Vehicular (Cluster 1) Early Operational Assessment (EOA), Developmental and Operational Testing (DT/OT).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.830	0.844
RDT&E Articles Qty				
JTRS: Technical and Engineering Support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.325	0.244
RDT&E Articles Qty				
JTRS: Contract Advisory and Assistance Services.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.560	
RDT&E Articles Qty				
TSCT (LMST): Integration and update support documentation.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.100	
RDT&E Articles Qty				
TSCT (LMST): Contract support costs.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.150	
RDT&E Articles Qty				
TSCT (LMST): MCTSSA interoperability/DISA on-orbit tests.				
(U) Total \$	0.000	0.584	8.881	8.698

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Development		PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Systems			PROJECT NUMBER AND NAME C2275 Radio Systems					
(U) PROJECT CHANGE SUMMARY:										
	FY2002	FY2003	FY 2004	FY 2005						
(U) FY 2003 President's Budget:	0.000	0.597	1.393	1.787						
(U) Adjustments from the NAVCOMPT Budget:										
(U) Congressional/OSD Program Reductions			-0.396	-0.356						
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings			7.884	7.267						
(U) SBIR/STTR Transfer										
(U) Minor Affordability Adjustment		-0.013								
(U) FY 2004 President's Budget:	0.000	0.584	8.881	8.698						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: Change in FY 04 and FY05 is due to realignment of programs within the Marine Corps.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC, BLI# 464300 Jt Tactical Radio Sys	0.000	0.000	13.919	33.084	32.499	90.903	80.657	73.196	Continuing	Continuing
(U) PMC BLI# 463300 Radio Systems (LMST)	0.000	4.944	0.000	5.250	0.290	0.090	0.000	0.000	0.000	10.574
(U) PMC BLI# 463300 LEGACY COMM/ELECT	0.000	0.000	0.000	3.772	7.203	10.221	9.246	6.240	Continuing	Continuing
(U) Related RDT&E: Not Applicable										
(U) D. ACQUISITION STRATEGY:										
(U) Tactical Satellite Comm Terminal - LMST- The acquisition strategy for the LMST is based on current developmental efforts of both the Army and Air Force to develop full duplex Ka-band satellite capabilities in support of the Wideband Gapfiller satellites. The LMST integration program leverages off the current efforts and integrates the full duplex Ka-band capabilities into existing terminals.										
(U) Milstar (SMART-T) - The acquisition strategy for the SMART-T is aligned with the lead service's strategy. The Advanced Extremely High Frequency (AEHF) upgrade will increase throughput and provide interoperability between services.										

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems	C2275 Radio Systems
(U) JTRS - JTRS is the next generation radio systems to provide required transformational capabilities while leveraging modern technologies to resolve interoperability and lifecycle cost issues. The procurement of JTRS will be blocked by capabilities available at the time of the requirement. Block 1 provides required Handheld/Manpack lifecycle replacements for aging dismantled systems and freeing Receiver-Transmitters (RT) for spare support of ground vehicular systems until Block 2, Ground Vehicular (Cluster 1 JTRS) radio systems can be procured. Also in Block 1, PDSS of EPLRS will maintain its compatibility with JTRS and reduce its overall lifecycle cost. With JTRS Block 2 and 3, the functional capabilities of today's radios are provided via software. By developing a standardized radio architecture, the same software running in one radio system can be used in radios developed by separate manufacturers, greatly reducing interoperability challenges that have resulted from separate developments. The U.S. Army is beginning procurement of Ground Vehicular radio systems built to the JTRS architecture to provide improved mobile communications support to computer-based command and control systems. These radios will also support Marine Corps requirements for high-capacity, dynamic, mobile, networked communications as the Marine Corps continues to automate its processes. Integration of these radios into C2 platforms, and begin procurement of Ground Vehicular JTRS to replace aging HF Over the Horizon (OTH) (AN/MRC-138) and UHF Air/Ground (AN/VRC-83) radio systems. The integration of JTRS into the AAV will increase its C4I capability and eliminate the cost of retrofitting the AAV for JTRS Life Cycle Cost Reduction. JTRS will reduce development costs for enhancements to future radio system implementations, reduce maintenance support costs by reducing the number of types of radio systems in the inventory, and reduce operating costs through the employment of multi-function radio systems. (U) E. MAJOR PERFORMERS: FY04 TSCT (LMST) HARRIS COMM SYS, MELBOURNE, FL K-BAND INTERGRATION , OCT03. FY03 JTRS: TBD PROGRAM SUPPORT, OCT 02. FY04 JTRS: BOEING, ANAHEIM, CA,MAJOR H/W SUB, HARRIS, ROCHESTER, NY,BAE, WAYNE NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 04. FY05 JTRS: BOEING, ANAHEIM, CA ,MAJOR H/W SUB, HARRIS, ROCHESTER, NY ,BAE, WAYNE NJ. MAJ S/W SUB TRW SEATTLE, WA, OCT 05.		

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Exhibit R-3 Cost Analysis									DATE:		February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Systems					C2275 Radio Systems							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
LMST Ka-band Integration	FFP	Harris Corp, Florida						0.560	10/03			Continuing	Continuing		
JTRS EMD Radio Manufacturing	CPAF	TBD	0.000	0.000		0.000		3.768	06/02	4.834	10/04	Continuing	Continuing		
Subtotal Product Development			0.000	0.000		0.000		4.328		4.834		Continuing	Continuing		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
LMST Program travel	Allot	MARCORSYSCOM						0.025	10/03			0.000	0.025		
LMST Technical support	FFP	NGIT, Stafford, VA						0.075	10/03			0.000	0.075		
JTRS Integration/Migration	TBD	TBD				0.237	12/03	1.105	12/03	1.100	10/04	Continuing	Continuing		
JTRS Tech & Eng Support	TBD	TBD						0.830	10/03	0.844	10/04	Continuing	Continuing		
Subtotal Support			0.000	0.000		0.237		2.035		1.944		Continuing	Continuing		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
LMST Integration tests	WR	MCTSSA						0.080	07/03			0.000	0.080	0.080	
JTRS Gnd Veh EOA/DT/OT	WR	MCOTEA						0.100	12/03	0.100	10/04	Continuing	Continuing		
JTRS Gnd Veh EOA/DT/OT	MIPR	PM TRCS, CECOM						1.420	12/03	1.013	10/04	Continuing	Continuing	5.750	
LMST DISA on-orbit tests	MIPR	DISA						0.070	05/03						
Subtotal T&E			0.000	0.000		0.000		1.670		1.113		0.000	2.783		
Remarks:															
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
JTRS Program Support	TBD	TBD				0.347	10/02	0.523	12/03	0.563	10/04	Continuing	Continuing		
JTRS Contract Adv & Assist	TBD	TBD						0.325	12/03	0.244	10/04	Continuing	Continuing		
Subtotal Management			0.000	0.000		0.347		0.848		0.807		0.000	2.002		
Remarks:															
Total Cost				0.000		0.584		8.881		8.698		Continuing	Continuing		

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Exhibit 4/4a, Schedule Profile/Detail						DATE:		February 2003	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communication Systems				C2275 Radio Systems			
JOINT TACTICAL RADIO SYSTEM (JTRS)									
FISCAL YEARS	FY02	FY03	FY04	FY05	FY06	FY07	FY08		
BLOCK 1 (Interim)									
MANPACK HFMR									
HANDHELD THHR			240	695	65				
TEAMS			620	1283	597				
Milestone			74 MS 'C'	166	56				
BLOCK 2 (JTRS Cluster 1 Vehicular)			EMD		LRIP	FRP	FRP		
Milestones			10		83	340	290		
Contract Award									
Operation Capability									
BLOCK 3 (JTRS Cluster 2 Manpack/Handheld)					EMD	LRIP	LRIP		
Milestones									
Contract Award									
Operation Capability									

<u>Program Funding Summary</u> <u>(APPN, BLI #, NOMEN)</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	0.000	0.584	8.071	8.698	4.115	3.749	1.573	1.633	Continuing	Continuing
(U) PMC BLI# 464300 JTRS	0.000	0.000	13.919	33.084	32.499	90.903	80.657	73.196	Continuing	Continuing

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Exhibit 4/4a, Schedule Profile/Detail								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME				
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Systems					C2275 Radio Systems				
TACTICAL SATELLITE COMMUNICATION TERMINAL (LMST)												
Fiscal Year	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	Total	
Milestone III (procurement)	◆											
Contract ECP Award	◆											
Terminal Deliveries/Fielding												
IOC			◆									
FOC				◆								
Ka-band development												
Integration Fielding												
IOC				◆								
FOC							◆					

Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY2008	FY2009	To Compl	Total Cos
(APPN, BLI #, NOMEN)										
(U) RDT&E,N	0.000	0.000	0.810	0.000	0.000	0.000	0.555	0.743	0.000	2.108
(U) PMC BLI# 463300 Radio Systems	0.000	4.944	0.000	5.250	0.290	0.090	0.000	0.000	0.000	10.574

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys				C2276 Communications Switching & Control Systems					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost To Complete	Total Program
Project Cost	1.427	4.513	6.381	3.815	4.675	3.921	4.042	3.428	Continuing	Continuing
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
(U) The Joint Network Management System (JNMS) is a Combatant Commander, Joint Task Force (CJTF) communications planning and management system. It provides communication planners with the capabilities to conduct high level planning; detailed planning and engineering; monitoring; control and reconfiguration; spectrum planning and management; and security of systems and networks supporting joint operations. The Combatant Commander, CJTF, Joint Communications Control Center (JCCC), and Service component headquarters, System control (SYSCON), will use JNMS to create, modify and manage standardized and automated communications plan (e.g., Annex K).										
(U) The Transition Switch Module (TSM) will provide a flexible Unit Level Switch that bridges legacy Tri-Tac switches with current commercial technology, providing maneuver elements with improved voice/data switching, data transport and bandwidth management capabilities. This program will maintain USMC joint interoperability as all Services transition to COTS switching technologies.										
(U) The Tactical Data Network (TDN) augments the existing MAGTF communications infrastructure to provide the commander an integrated data network, forming the communications backbone for Tactical Data Systems (TDS) and the Defense Messaging System (DMS). TDN consists of Gateways (AN/TSQ-222) and Data Distribution Systems (AN/TSQ-228), interconnected with one another and their subscribers via a combination of common user long-haul transmission systems, local area networks (LAN), and switched telephone systems. The TDN PIP provides a smaller and more mobile variant DDS for the Battalion, Secure Wireless LAN capability for enhanced mobility, integrates security interdiction products into the Gateway; and provides critical refresh of non-MCHS network components such as routers, switches, converters, and tactical peripherals.										
(U) The Digital Technical Control (DTC) facilitates the installation, operation, resoration, and management of individual circuits and digital links consisting of many multiplexed circuits. It provides the primary interface between subscriber systems/networks within a local area and long-haul multichannel transmission systems to transport voice, message, data, and imagery traffic. It can add, drop and insert digital circuits into multiplexed groups, provide a source of stable timing to connected equipment, condition circuits, and perform analog/digital, 2-wire/4-wire, and signalling conversions. It contains the monitoring, testing, and patching equipment required by a technical controller to troubleshoot and restore faulty circuits and links.										
(U) Target Location Designation and Hand-Off System (TLDHS) - Provides fire support observers/controllers (OCs) with the ability to: observe their area of interest, quickly and accurately locate ground targets, and digitally request and coordinate target engagements by field artillery (FA), close air support (CAS), and naval surface fire support (NSFS). TLDHS will also provide the capability to designate targets for laser-guided munitions and laser spot trackers. TLDHS is comprised of and integrates two major subsystems: the Lightweight Laser Designator Rangefinder (LLDR) and the Target Hand-off System (THS).										
(U) The First In Command and Control System (FICCS) is an integrated, processor-controlled communications and management system, housed in a S-788/G Lightweight Multipurpose Shelter (LMS), providing secure and non-secure voice and data communications, switching functions, network routing and management, and global broadcast functions. The S-788/G LMS is mounted on a Heavy-variant High Mobility Multipurpose Wheeled Vehicle (H-HMMWV) and can be connected to a quick-erect general purpose tent.										
U. DMS is an OSD-mandated program to integrate Automatic Digital Network (AUTODIN) and E-Mail into a single, secure, DoD message communications system. DMS will expand writer-to-reader connectivity, support, and message security services. Organizations and individuals will be able to create, edit, send, receive, read, and process organizational and individual messages, secured with end-to-end protection, direct from desktop terminals/personal computers in their workspaces.										

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2276 Communications Switching & Control Systems	
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.739	0.944	0.000	0.000
RDT&E Articles Qty				
JNMS: Development, testing, and IOT&E of JNMS hardware suites and upgrade SPEED for DII COE LVL 6 compliance.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.249	1.024
RDT&E Articles Qty				
JNMS: JNMS MS III/C. Develop USMC unique modules for JNMS applicationa, and SPEED enhancements for JNMS, IOW, and EPLRS.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	3.569	0.000	0.000
RDT&E Articles Qty				
TSM: Development and testing of Engineering Development Models (EDM).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.982	1.654
RDT&E Articles Qty				
TSM: Development of cellular telephone and Voice over IP (VoIP) capability for integration into TSM EDMs and test for interoperability/operational suitability.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.435	0.000	0.000	0.000
RDT&E Articles Qty				
DMS: Development and testing of Engineering integration testing				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
RDT&E Articles Qty				
Accomplishment/Effort Subtotal Cost	0.085	0.000	0.000	0.000
DTC: Development and testing of Engineering Development integration testing				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.168	0.000	0.000	0.000
RDT&E Articles Qty				
TLDHS: Development and testing of Engineering Development integration testing				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	4.150	0.000
RDT&E Articles Qty				
FICCS: Develop and test the integration of Gigabite Ethernet, and Wireless Telephone technologies into the FICCS platform.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.137
RDT&E Articles Qty				
FICCS: Pursue miniaturization of hardware solutions, colaborate with MCTSSA SIE and conduct Interoperability Testing at JITC.				
(U) Total \$	0.000	1.427	4.513	6.381
				3.815

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys				C2276 Communications Switching & Control Systems					
(U) PROJECT CHANGE SUMMARY:										
	FY2002	FY2003	FY 2004	FY 2005						
(U) FY 2003 President's Budget:	0.969	4.766	0.602	0.603						
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions		-0.253	-0.141	-0.180						
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings	0.502		5.920	3.392						
(U) SBIR/STTR Transfer	-0.025									
(U) Minor Affordability Adjustment	-0.019									
(U) FY 2004 President's Budget:	1.427	4.513	6.381	3.815						
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 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U)PMC BLI 463400 Communications Switching and Control Systems										
JNMS	0.000	0.000	5.845	5.290	1.297	1.050	0.650		0.000	14.132
BLACKJACK DIGITAL FAX	0.985	0.000	0.000	0.000	0.000	0.000			0.000	0.985
TDN	0.399	2.110	2.354	1.125	5.587	57.065	34.679	0.150	0.000	68.79
FICCS	0.000	0.000	9.611	11.323	17.142	1.884	0.768	0.853	0.000	41.581
DMS	0.000	3.938	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.938
DSID	2.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.793
JECCS	0.000	19.536	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19.536
(U)PMC BLI 468800 Transition Switch Module	0.000	0.000	23.072	40.122	57.122	52.993	4.800	2.951	0.000	Cont
(U)PMC BLI 473300 TLDHS	3.584	34.134	28.444	0.000	0.000	0.000	0.000	0.000	0.000	66.162
(U) Related RDT&E: Not Applicable.										

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2276 Communications Switching & Control Systems
(U) D. ACQUISITION STRATEGY DMS: DMS is a Joint ACAT1AM program. It is ASD (C3I) - mandated. Each year Joint Inter Operability Testing Center (JTIC) runs on Operational Test assessment on DMS software version, maintenance releases. The fund support Marine Corps Operations Test Activity (OTA). Marine Corps participation is vital to ensuring the Marine Corps implementation of DMS is interoperable with all DOD CINCs/Services/Agencies. (U) D. ACQUISITION STRATEGY JNMS: The JNMS acquisition strategy awards two concurrent contracts to one offeror. The first contract is a CPFF contract for the development of the JNMS software baseline. The second contract is a follow-on FFP contract for JNMS software suites with a T&M option for production and fielding support. The contracts were awarded using a best value, full and open competition source selection process that stresses the use of COTS. If COTS is not available, then Government-off-the-Shelf (GOTS) products will be the next strategy emphasized. A performance specification is used as the technical basis for the JNMS. (U) D. ACQUISITION STRATEGY TSM: The TSM acquisition strategy calls for use of FY03 R&D to develop and demonstrate a system of sufficient maturity for production (Milestone C). There will be a single contract award for LRIP, testing and full-rate production after successful completion of test. FY04 and FY05 R&D will be used to develop potential cellular telephone and Voice over IP (VoIP) technology for insertion into the TSM EDMs. They will then be tested prior to incorporating them into the TSM production systems. (U) D. ACQUISITION STRATEGY FICCS: FICCS will use the evolutionary acquisition strategy with the Block I variant consisting of the initial three JECCS systems. These systems are to be fielded during FY-03, with over \$1M of proposed ONR S&T and \$80K ELB ACTD (Wireless) efforts, FICCS Block II will consist of six (6) JECCS production units and nine (9) Operational Shelters, which will include upgrades to emerging hardware/software. Exploring the Block II/III R&D effort, FICCS Block III will achieve the current AAO of fourteen (14) FICCS systems with the production of five (5) JECCS units and five (5) Operational Shelters. (U) E. Major Performers: FY02 - (DMS) NAWC FALLBROOK CRANE IN .TEST PROGRAM MANAGEMENT SUPPORT , AUG02 FY02 - (JNMS) Northrop Grumman Information Technology (NGIT), Winterpark, FL. SPEED enhancements for JNMS, AUG02 FY03 - (JNMS) NGIT, Winterpark, FL. SPEED enhancements; MCOTEA, Quantico, VA. Fleet IOT&E support, JAN 03. FY04 - (JNMS) NGIT, Winterpark, FL. SPEED enhancements; CECOM, Momouth, NJ. USMC JNMS adapters, JAN 04 FY05 - (JNMS) NGIT, Winterpark, FL. SPEED enhancements; CECOM, Momouth, NJ. USMC JNMS adapters, JAN 05 FY03/04 - (TSM) TBD, Prime Contractor, TSM prototype design/build/test, OCT 02 FY 04/05 - (TSM) TBD, Prime Contractor, Integration and test of VoIP and Wireless technology FY04 - (FICCS) Darlington, Inc., Wando, SC. Integration and test of Gigabit Ethernet and Wireless Telephone technology, OCT 04 FY05 - (FICCS) Darlington, Inc., Wando, SC. Hardware miniaturization and colaboration/testing with MCTSSA SIE & JITC, OCT 05		

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Exhibit R-3 Cost Analysis							DATE: February 2003							
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev			PROGRAM ELEMENT 0206313M Marine Corps Communications Sys				PROJECT NUMBER AND NAME C2276 Communications Switching & Control Systems							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JNMS Development	CPFF	CECOM, Monmouth, NJ	0.000	0.000		0.184	01/03	0.199	01/04	0.154	01/05	Cont.	Cont.	
JNMS SPEED	FFP	NGIT Winterpark, FL	0.000	0.500	08/02	0.246	01/03	0.450	01/04	0.460	01/05	Cont.	Cont.	
JNMS MCHS	FFP	MCSC, Quantico, VA	0.000	0.050	08/02									
FICCS	CPFF	TBD	0.000	0.000		0.000		3.450	10/03	0.637	10/04	Cont.	Cont.	
TSM	FFP	TBD	0.000	0.000		1.825	10/02	0.554	10/03	0.694	10/04	Cont.	Cont.	
Subtotal Product Dev			0.000	0.550		2.255		4.653		1.945		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JNMS PO Support	WR	MCSC, Quantico, VA/MCTSSA	0.000	0.064	05/02	0.100	01/03	0.100	01/04	0.090	01/05	Cont.	Cont.	
JNMS Support Contractor	FFP	NGIT, Aquia, VA	0.000	0.125	01/02	0.230	01/03	0.300	01/04	0.320	01/05	Cont.	Cont.	
FICCS	CPFF	Support Contractor	0.000	0.000		0.000		0.500	10/03	0.300	10/04	Cont.	Cont.	
TSM	FFP	NGIT, Aquia, VA	0.000	0.000		0.794	10/02	0.304	10/03	0.285	10/04	Cont.	Cont.	
DMS	WR	NAWC FALLBROOK	0.000	0.237	01/02	0.000								
Subtotal Support			0.000	0.426		1.124		1.204		0.995		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JNMS	WR	MCOTEA/FMF	0.000	0.000		0.184	01/03	0.200	12/03	0.000		Cont.	Cont.	
FICCS	WR	MCOTEA	0.000	0.000		0.000		0.200	10/03	0.200	10/04	Cont.	Cont.	
TSM	CPFF	TBD	0.000	0.000		0.950	10/02	0.000		0.450	12/04	Cont.	Cont.	
TSM	WR	MCOTEA	0.000	0.000		0.000		0.124	10/03	0.225	10/04	Cont.	Cont.	
TDN	WR	MCOTEA	0.000	0.085	01/02									
TLDHS	WR	MCOTEA	0.000	0.168	01/02									
DMS	WR	MCOTEA		0.198	01/02									
Subtotal T&E			0.000	0.451		1.134		0.524		0.875		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	
Remarks:														
Total Cost			0.000	1.427		4.513		6.381		3.815		Cont.	Cont.	

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CLASSIFICATION:

Exhibit R-4/4a Schedule Profile/Detail

DATE:

February 2003

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2276 Communications Switching & Control Systems

TSM Milestone Schedule

	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	Total
Milestones					MS B ◆		MS C ◆						
Contract Award					◆								
EMD (6)						■							
DT						■							
IOT&E/JITC Cert						■							
Production Option Award						◆							
Production							■	■	■	■	■	■	
Fielding								■	■	■	■	■	
IOC									◆				
FOC											◆		

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC BLI# 468800 Transition Switch Module (TSM)

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N	0.000	3.569	0.982	1.654	1.675	1.143	0.906	0.921	0.000	10.85
(U) PMC BLI# 468800 Transition Switch Module (TSM)	0.000	0.000	23.072	40.122	57.122	52.993	4.800	2.951	Continuing	Continuing

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Exhibit R-4/4a Schedule Profile/Detail					DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME				
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communications Sys			C2276 Communications Switching & Control Systems				
	TSM SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	Contract Award		2Q						
	Engineering Development Model Delivery (Qty 6)		4Q						
	Operational Test/Joint Interoperability Certification		4Q						
	Milestone C			1Q					
	Production Option Award			2Q					
	Fielding Begins				2Q				
	Initial Operational Capability					1Q			
	Fielding Ends/Full Operational Capability							2Q	

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Exhibit R-4/4a Schedule Profile/Detail

DATE:

February 2003

 APPROPRIATION/BUDGET ACTIVITY
 RDT&E, N /BA 7 Operational Sys Dev

 PROGRAM ELEMENT
 0206313M Marine Corps Communications Sys

 PROJECT NUMBER AND NAME
 C2276 Communications Switching & Control Systems

Task Name	JNMS																											
	99				00				01				02				03				04				05			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
JROC Approval																												
Milestone I/II																												
RFP Release																												
Joint Service Contract Award																												
FQT Threshold																												
IOT&E																												
Milestone III Approval																												
Marine Corps Fielding																												

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC BLI# 463400 CommSwitch& Ctl Sys (JNMS)

FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
0.739	0.944	1.249	1.024	0.845	0.822	0.649	0.030	Continuing	Continuing
0.000	0.000	5.845	5.290	1.297	1.050	0.650	0	0.000	14.132

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Exhibit R-4/4a Schedule Profile/Detail					DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME				
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communications Sys			C2276 Communications Switching & Control Systems				
	JNMS SCHEDULE DETAIL	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
	Software Pre-release .2	4Q							
	Functional (Software) Qualification Test (FQT)		3Q						
	Initial Operational Test & Evaluation (IOT&E)			1Q					
	Milestone III Approval (PEO C3S)			3Q					
	USMC Fielding			4Q					

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Exhibit R-4/4a Schedule Profile/Detail

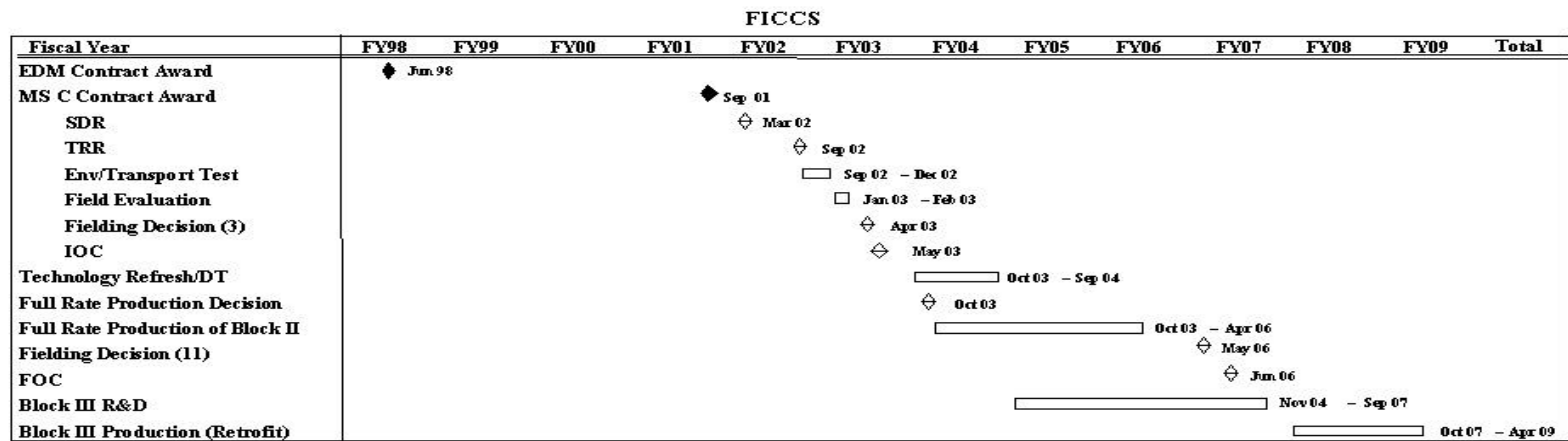
DATE:

February 2003

APPROPRIATION/BUDGET ACTIVITY
RDT&E, N /BA 7 Operational Sys Dev

PROGRAM ELEMENT
0206313M Marine Corps Communications Sys

PROJECT NUMBER AND NAME
C2276 Communications Switching & Control Systems



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC BLI# 463400 CommSwitch& Ctl Sys - FICCS

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N	0.000	0.000	4.150	1.137	1.027	1.066	1.586	1.857	0.000	10.823
(U) PMC BLI# 463400 CommSwitch& Ctl Sys - FICCS	0.000	0.000	9.611	11.323	17.142	1.884	0.768	0.853	0.000	41.581

R-1 SHOPPING LIST - Item No. 187

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Exhibit R-4/4a, Schedule Profile/Detail

(Exhibit R-4/4a, page 10 of 68)

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Exhibit R-4/4a Schedule Profile/Detail

DATE:

February 2003

[illegible][illegible]

PROJECT NUMBER AND NAME

RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communications Sys
------------------------------------	--

C2276 Communications Switching & Control Systems

[illegible]

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003																			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems					PROJECT NUMBER AND NAME C2277 Systems Engineering & Integration																			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program															
Project Cost	11.772	10.736	8.907	7.991	9.597	8.768	9.043	9.204	Cont	Cont															
RDT&E Articles Qty																									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: (U) This project provides funds for engineering, test, and evaluation activity, which ensures that the systems being developed within the Program Element (PE) employ consistent standards for interoperability and, to the maximum extent feasible, use hardware, and software which is uniform across programs. - The Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, Coordination. (MAGTF C4I SEI&C) subproject is a non-acquisition effort which provides centralized planning and execution of MAGTF C4I Systems; it develops, certifies and manages the configuration of the MAGTF C4I Systems/Technical Architecture and its implementation; it is also used to develop and test common hardware and software for use in MAGTF C4I Systems; MAGTF C4I SE&I also funds USMC participation in joint planning, technical standards development and joint exercise participation - Global Broadcast Service (GBS) Terminal – The overall GBS is a satellite system composed of a space segment, a transmit suite and a Receive Suite. It provides near worldwide high data rate dissemination of large information products such as classified and unclassified intelligence and video, theater message traffic, joint and service-unique news, weather and MWR programming to deployed or garrison forces via small user platforms. - MAGTF C4I SEI&C Joint Distributed Engineering Plant (JDEP) is a DoD mandated program to evaluate the interoperability of the Family of Systems (FoS) C4ISR configurations that support joint forces, evaluate the interoperability of new acquisition systems, and provide an environment for engineering analysis to correct systems deficiencies and develop new capabilities. - Joint Warrior Interoperability Demos (JWID) is a JCS-mandated program to demonstrate new C4I interoperability concepts for the warrior. JWID offers the opportunity for demonstrations of evolving technologies in interoperability, information dissemination, fusing and digital communications. - The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) is a Joint Chiefs-of-Staff (JCS)-mandated program for joint development, implementation, and testing of data links under the direction of the Joint Interoperability Engineering Organization (JIEO). - Common Computer Resources (CCR) Marine Common Hardware Suite (MCHS) mission – Central and standardized management and acquisition of all Tactical common computer hardware and infrastructure adopting the Joint Defense Information Infrastructure (DII) Common Operating Environment (COE) with consolidated Integrated Logistics Support. Ensure the environment remains in synchronization with computer hardware technology hardware improvements. The mission supports the Commandant's Planning Guidance and input to the Marine Corps Master Plan. This program has moved to Project C2510 within this Program Element (PE) in FY04 and beyond. - Ballon Upgrade - The Marine Corps Stationary Lighter Than Air Platform (MCSLAP) program provides for the Marine Corps' only expeditionary capability to rapidly extend voice and data communications beyond line of sight. Small and medium tactical aerostat exist today in commercial off-the-shelf configurations that require minimal adaptation to meet basic USMC operational requirements. A lightweight, durable, stationary liftable platform is designed for extending Marine Air Ground Task Force (MAGTF) Command, Control, Communications, Computers, and Intelligence (C4I) communications range capabilities. (U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM: <table border="1"> <thead> <tr> <th>COST (\$ in Millions)</th> <th>FY 2002</th> <th>FY 2003</th> <th>FY 2004</th> <th>FY 2005</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/Effort Subtotal Cost</td> <td>1.453</td> <td>1.067</td> <td>1.207</td> <td>1.197</td> </tr> <tr> <td>RDT&E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> JWID: Participation in JWID, a JCS mandated program, to demonstrate new C4I interoperability concepts. It also supports management and planning of future JWID exercises.											COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	Accomplishment/Effort Subtotal Cost	1.453	1.067	1.207	1.197	RDT&E Articles Qty				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005																					
Accomplishment/Effort Subtotal Cost	1.453	1.067	1.207	1.197																					
RDT&E Articles Qty																									

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EXHIBIT R-2a, RDT&E Project Justification			DATE:	
			February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems		PROJECT NUMBER AND NAME C2277 Systems Engineering & Integration	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.546	1.695	1.740	1.784
RDT&E Articles Qty				
JINTACCS: Participation in JINTACCS, a JCS-mandated program aimed at ensuring interoperability of tactical systems. Analysis Engineering and technical support in developing joint standards. Interoperability testing/certification in support of C4I systems. Technical support in various joint programs and ACTD's.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	5.000	4.297	4.312	3.392
RDT&E Articles Qty				
MAGTF SEI&C: Engineering and technical support for configuration management of MAGTF C4I systems and its migration to the DII COE. Assist Program Group Managers in meeting C4I Support Plans (KPPs). Maintain MSTAR system as technical roadmap to MAGTF C4I system integration. Analysis, studies and reviews in the development and implementation of the COE migration strategy. Analyze the movement of MAGTF C4I systems to joint standards to mandated levels and provide technical recommendations to correct deficiencies. Engineering support to D-30 Amphib Ready Group (ARG) preparation process.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.742	0.830	1.648	1.618
RDT&E Articles Qty				
MAGTF SEI&C (JDEP): DoD mandated program to evaluate the interoperability of the Family of Systems (FoS) C4ISR configurations that support joint forces, evaluate the interoperability of new acquisition systems, and provide an environment for engineering analysis to correct systems deficiencies and develop new capabilities.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.082	1.400		
RDT&E Articles Qty				
Balloon Upgrade: Active testing and utilization of Aerostat Ballon to test concepts for USMC connectivity to USN Battle Groups.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.581			
RDT&E Articles Qty				
GBS: Support and Management for Confidence/User Evaluation.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.241			
RDT&E Articles Qty				
GBS: Operational Testing and Integration Testing.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.127	1.447		
RDT&E Articles Qty				
CCR MCHS: Research, evaluation, test and selection of computer hardware products for the Marine Corps Common Hardware Suite (MCHS). Development of MCHS system specifications and baselines; research and analyze computer technologies and hardware; conduct performance, compatibility and environmental testing; support commercial product selection and application in support of Tactical Systems.				
(U) Total \$	0.000	11.772	10.736	8.907
				7.991

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Systems			C2277 Systems Engineering & Integration				
(U) PROJECT CHANGE SUMMARY:									
	FY2002	FY2003	FY2004	FY2005					
(U) FY 2003 President's Budget:	13.244	9.912	11.810	11.011					
(U) Adjustments from the President's Budget:									
(U) Congressional/OSD Program Reductions		-0.576	0.094	-0.177					
(U) Congressional Rescissions									
(U) Congressional Increases		1.400							
(U) Reprogrammings	-1.031		-2.997	-2.843					
(U) SBIR/STTR Transfer	-0.253								
(U) Minor Affordability Adjustment	-0.188								
(U) FY 2004 President's Budget:	11.772	10.736	8.907	7.991					
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. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009 To Compl</u>	<u>Total Cost</u>
PMC BLI 463000 CCR	27.410	38.168	61.514	71.743	86.339	105.161	101.188	105.989	Cont
PMC BLI 463300 RADIO SYSTEMS	37.011	27.939	10.633	24.462	9.393	10.711	26.815	10.316	Cont
(U) Related RDT&E:									
(U) PE 0604817A									
(U) PE 0206623M, Marine Corps Ground Combat/Supporting Arms Systems									
(U) D. ACQUISITION STRATEGY JWID, JINTACCS MAGTF SE&IC, GBS, AND CCR: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.									
CCR - T&E - NSWC/CD will procure Computer Hardware as noted under selected MCHS and non-MCHS systems for battery and environmental testing. NSWC/CD shall provide written test results showing the facts determined in the battery and environmental testing.									
(U) E. Major Performers: FY02-FY05 Northrup Grumman, Stafford VA - Level of effort contract for program management, engineering, analytical, acquisition and logistics support for C4I programs in the areas of systems architectures, configuration management, interoperability and integration.									

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Exhibit R-3 Cost Analysis					DATE: February 2003									
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME									
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Systems		C2277 Systems Engineering & Integration									
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JWID	MPR	JPO Ft Monmouth NJ	0.747	0.630	10/01	0.640	12/02	0.640	12/03	0.680	12/04	Cont.	Cont.	
JWID	WR	NSWC Dahlgren, VA	0.000	0.300	05/02							0.000	0.300	0.300
JWID	WR	MCSC Quantico, VA	0.000	0.073	10/01	0.021	10/02	0.022	10/03	0.029	10/04	Cont.	Cont.	
GBS	WR	MCSC Quantico, VA	0.066	0.046	10/01							0.000	0.112	0.146
BALLOON UPGRADE	TBD	TBD		1.082	11/01	1.400	04/03							
Subtotal Product Dev			0.813	2.131		2.061		0.662		0.709		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
JWID	C/FFP	NGIT, Stafford VA	0.726	0.450	10/01	0.406	10/02	0.545	10/03	0.488	10/04	Cont.	Cont.	
MAGTF SEI&C	MIPR	CECOM Ft Monmouth NJ	0.580	0.085	12/01							Cont.	Cont.	
MAGTF SEI&C	C/FFP	NGIT, Stafford VA		0.610	10/02	0.857	10/02	1.251	10/03	1.033	10/04			
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.408	0.100	10/01	0.110	10/02	0.144	10/03	0.123	10/04	Cont.	Cont.	
MAGTF SEI&C	C/FFP	OSEC, Stafford VA	0.000	0.252	10/01	0.370	11/02	0.485	11/03	0.416	11/04	Cont.	Cont.	
MAGTF SEI&C	WR	NSWC Crane IN	0.108	0.120	11/01	0.000						0.000	0.228	0.322
MAGTF SEI&C	RCP	MCSC, Quantico, VA	0.000	0.858	09/02							0.000	0.858	0.858
MAGTF SEI&C (JDEP)	WR	NSWC Dahlgren, VA	0.000	0.068	01/02	0.083	01/03	0.120	01/04	0.132	01/05	Cont.	Cont.	
MAGTF SEI&C (JDEP)	T&M	SENSIS Syracuse NY	0.000	0.547	05/02	0.494	05/03	1.164	05/04	1.089	05/05	Cont.	Cont.	
MAGTF SEI&C (JDEP)	MPR	DISA	0.000	0.007	02/02	0.010	02/03	0.010	02/04	0.012	02/05	Cont.	Cont.	
MAGTF SEI&C (JDEP)	WR	MCTSSA, Cp Pndltn, CA	0.000	0.120	04/02	0.243	04/03	0.354	04/04	0.385	04/05	Cont.	Cont.	
MAGTF SEI&C (INIT)	C/FFP	NGIT, Stafford VA	0.000	1.168	12/01	0.000						0.000	1.168	1.495
MAGTF SEI&C (INIT)	C/FFP	Raytheon, Fullerton, CA	0.000	0.350	12/01	0.000						0.000	0.350	0.655
GBS	C/FFP	NGIT, Stafford VA	0.495	0.354	02/02	0.000						0.000	0.849	0.849
GBS	C/FFP	Booz Allen	0.000	0.050	03/02	0.000						0.000	0.050	0.050
GBS	WR	MCSC, Quantico, VA	0.000	0.116	10/01	0.000						0.000	0.116	0.116
GBS	WR	I/II/III MEF	0.040	0.016	02/02	0.000						0.000	0.056	0.056
CCR	Various	Various	0.000	0.395	11/01	0.200	12/02					Cont.	Cont.	
CCR	MPR	GSA	0.000	0.802	03/02	0.711	03/02					Cont.	Cont.	
CCR	WR	NSWC Crane IN	0.000	0.200	06/02	0.200	06/02					Cont.	Cont.	
CCR	RCP	MCSC, Quantico, VA	0.000	0.037	03/02	0.037	03/02					Cont.	Cont.	
ONR TAXES			0.128											
Subtotal Support			2.485	6.705		3.721		4.073		3.678				
Remarks:														

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Exhibit R-3 Cost Analysis					DATE: February 2003									
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME									
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Systems		C2277 Systems Engineering & Integration									
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	9.327									Cont.	Cont.	Cont.
MAGTF SEI&C	TBD	TBD				2.780	10/02	2.196	10/03	1.618	10/04	Cont.	Cont.	
JINTACCS	C/FFP	NGIT, Stafford VA	4.062	1.446	10/01							Cont.	Cont.	
JINTACCS	TBD	TBD				1.495	10/02	1.535	10/03	1.576	10/04	Cont.	Cont.	
JINTACCS	WR	MCTSSA, Cp Pndlttn, CA	0.264	0.100	10/01	0.200	10/02	0.205	10/03	0.208	10/04	Cont.	Cont.	
GBS	WR	MCTSSA, Cp Pndlttn, CA	0.200	0.241	02/02	0.000						0.000	0.441	0.440
CCR	RCP	MCSC, Quantico, VA	1.086	0.979	02/02	0.299	02/03					Cont.	Cont.	
Subtotal T&E			14.939	2.766		4.774		3.936		3.402		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MAGTF SEI&C	C/FFP	NGIT, Stafford VA	0.310	0.170	11/01							Cont.	Cont.	
MAGTF SEI&C	TBD	TBD				0.180	10/02	0.236	10/03	0.202	10/04	Cont.	Cont.	
Subtotal Management			0.310	0.170		0.180		0.236		0.202		Cont.	Cont.	
Remarks:														
Total Cost				11.772		10.736		8.907		7.991		Cont.	Cont.	

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys					C2278 Air Defense Weapons Systems				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	11.156	28.274	23.428	9.596	6.469	11.127	10.577	5.827	Cont	Cont
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
(U) This project encompasses two sub-element programs which are part of the Integrated Air Defense System for the Marine Corps.										
1. Combat ID (CID) will provide rapid and accurate determination of friends, foes, or neutral identities of all potential targets within a combatant's area of responsibility in time to take decisive action. It will enable fighting forces: to manage and control battlespace; optimally employ weapons and forces to increase the economy of force; lower combat attrition, and increase enemy losses while reducing fratricide. CID must be viewed as a capability which will be satisfied by fielding a Family of Systems (FoS). Beginning in FY-04 the USMC will focus on providing a Mounted Cooperative Target Identification System (MCTIS) for direct fire and combat support vehicles. This system will specifically provide the capability for Mounted Weapon Systems to accurately identify friendly platforms on the battlefield which will improve combat effectiveness and reduce fratricide. This program will transition to MCTIS in FY04. 2. The Complementary Low Altitude Weapons System (CLAWS) is a mobile ground based air defense missile system designed to defeat threat cruise missiles unmanned aerial vehicles, and aircraft. CLAWS takes advantage of government furnished equipment (GFE) and non-developmental items (NDI) and technology by integrating current inventory DoD missiles with existing High Mobility Multi-purpose Wheeled Vehicles (HMMWV). CLAWS shall provide a rapidly deployable, mobile, high firepower, all-weather, standoff air defense system to defend Marine Expeditionary Forces and Naval Forces from attack by cruise missiles, aircraft and UAVs. It shall complement existing Short Range Air Defense (SHORAD) capabilities and shall interface with current and proposed Marine Air Command and Control System sensors and data paths. 3. The Continuous Wave Acquisition Radar (CWAR) will investigate, integrate, and test safety and diminishing source issues related to CWAR specifically with the intention of increasing the fleet's system maintainability and reliability. This effort includes all necessary prototyping, initial tooling and associated test equipment to prepare for production efforts. This line will also support all program requirements studies related to investigating future CWAR requirements. This program will transition to Short/Medium Range Air Defense Radar. Funding for the Short/Medium Range Air Defense Radar has moved to Project C3099 within this PE in FY04 and beyond. 4. The Composite Tracking Network, formerly know as Cooperative Engagement Capability (CEC), enables all CTN-equipped, Anti-Air Warfare (AAW) weapons systems in a battle force to operate as a single, distributed AAW weapon system. This is accomplished providing timely sharing of fire control quality sensor data, correlated identification data, and AAW weapons management status. The sensor networking capability of CTN essentially allows forces to have a direct connection to the various sensors supported by forces throughout a battlefield enabling the development of a common understanding of the air situation. CTN consists of common processing units that interface with local and remote sensor data in order to develop a common track database and data communications pieces that enable the connectivity and networking of the sensors and processors. Funding for this program has moved to Project C2273 within this PE in FY04 and beyond. 5. The Low Altitude Air Defense (LAAD) Sustainment initiative is an umbrella program that consists of Man Portable Air Defense System (MANPADS), Ground Support Equipment, Ground Based Aerial Targets, trainers and simulators, Stinger Missiles/modifications, and weapons cueing and situational awareness systems that provide air defense of vital areas in general or direct support of the Marine Air Ground Task Force (MAGTF). 6. The Multi-Role Radar System (MRRS) will provide lightweight, expeditionary, three-dimensional radar capable of detecting Cruise Missiles (CMs), fixed and rotary winged aircraft, Unmanned Aerial Vehicles (UAVs) and an enhanced Combat Identification (CID) capability. The system will augment the AN/TPS-59(V)3 sensor coverage and will be integrated into the Navy's Cooperative Engagement Capability (CEC) and the Marine Corps Composite Tracking Network (CTN). Additionally, the system shall provide Air Traffic Control (ATC) with a real time display of all air activity within the assigned area of responsibility and will support the situational awareness and cuing for Stinger, Avenger, and CLAWS. Funding for this program has moved to Project C3099 within this PE in FY04 and beyond. 7. Pedestal Mounted Stinger (PMS) or "Avenger" is a turreted, lightweight, highly mobile gun/missile hybrid mounted on a heavy HMMWV. The system delivers eight ready to fire Stinger missiles and 285 rounds of .50 caliber ammunition in a single upload. An upgraded Land Navigation System assists the slew-to-cue capability and the Forward Looking Infra Red Device provides a day/night and reduced visibility capability. 8. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system performance with the specific purpose of meeting increased fleet operational requirements. As part of this effort, AN/TPS-63 modifications and system improvements will be researched and analyzed which complement existing components to preclude an expensive USMC investment in solid-state radar technology. Funding for this project has moved to Project C3099 in FY04 and beyond.										

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems		
9. Mounted Cooperative Target ID System (MCTIS) - will be a cooperative battlefield target identification device that employs encrypted, Ka band, millimeter wave, question and answer technology. It will consist of interrogator and transponder antennae, transceiver, and communications/electrical interface unit. It will be fielded as two variants: interrogator/transponder system for AAVs, LAVs, and M1A1s; and transponder-only system for combat support and combat service support vehicles. When fielded, mounted weapon systems will have the capability to identify targets as friendly or unknown, at ranges to 6 km, before engaging them. They and all other designated vehicles will also possess the capability to rapidly identify themselves as friendly to weapon systems equipped with comparable systems prior to being engaged. As a result, incidents of fratricide and collateral damage will decline, while the range at which targets may be engaged without fear of misidentification will increase dramatically. The system will be interoperable with Joint, Allied, and coalition forces' cooperative target identification systems.				
(U) B. ACCOMPLISHMENTS/ PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.121	0.269	0.000	0.000
RDT&E Articles Qty				
CWAR: Developmental test and evaluation.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.124	0.000	0.000	0.000
RDT&E Articles Qty				
CWAR: Development of Engineer Design Model.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.025	0.000	0.000	0.000
RDT&E Articles Qty				
CWAR: Program management support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.215	0.614	0.000	0.000
RDT&E Articles Qty				
CID: Program management support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.100	0.435	0.000	0.000
RDT&E Articles Qty				
CID: Requirements development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.285	0.413	0.000	0.000
RDT&E Articles Qty				
CID: Engineering analysis of CID systems in coordination with the Coalition CID ACTD program.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.139	0.137	0.000	0.000
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Developmental test and evaluation/risk reduction.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.100	0.150	0.000	0.000
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Development of Engineer Design Model.				

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EXHIBIT R-2a, RDT&E Project Justification				DATE:
				February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2278 Air Defense Weapons Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.110	0.110	0.000	0.000
RDT&E Articles Qty				
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Program management support. Funding for this program has moved to C3099 within this PE for FY04 and beyond.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.993	1.837	0.000	0.000
RDT&E Articles Qty				
CTN: Software development: IDD development for CAC2S and CLAWS interface to CTN.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.622	8.417	0.000	0.000
RDT&E Articles Qty				
CTN: Development of Engineer Design Model.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.648	0.919	0.000	0.000
RDT&E Articles Qty				
CTN: Testing and Evaluation: Developmental testing support. Certification of CAC2S and CLAWS interfaces to CTN.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.240	0.527	0.000	0.000
RDT&E Articles Qty				
CTN: Program management support. Funding for this program has been moved to Project C2273 within this PE for FY 04 and beyond.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	4.591	2.000	6.776	0.000
RDT&E Articles Qty				
CLAWS: Development, design, test and integration issues related to the four Production Representative Vehicles. Perform Key Performance Parameter (KPP).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.202	1.445	2.525	1.275
RDT&E Articles Qty				
CLAWS: Operational System Support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	4.945	0.000	0.000
RDT&E Articles Qty				
CLAWS: Developmental Testing (DT).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	7.065	1.945
RDT&E Articles Qty				
CLAWS: Operational Testing (OT).				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.641	2.000	2.700	1.912
RDT&E Articles Qty				
CLAWS: Program management support.				

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EXHIBIT R-2a, RDT&E Project Justification				DATE:	
				February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys			C2278 Air Defense Weapons Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	2.367	0.000	0.000	
RDT&E Articles Qty					
MRRS: Refinement of the ORD, Campaign Level Effectiveness Analysis, Analysis of Alternatives and Life Cycle Cost Estimate.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.383	0.000	0.000	
RDT&E Articles Qty					
MRRS: Affordable Ground Base Radar					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	1.150	0.000	0.000	
RDT&E Articles Qty					
MRRS: Program management support. Funding for this program has been moved to C3099 within the same PE for FY04 and beyond.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.156	0.000	0.000	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Study to examine the feasibility for replacement of the current Remote Terminal Unit/Expeditionary Air Defense System (EADS) software with commercial alternatives.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.250	0.000	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Certification of the Reprogrammable Microprocessor Flare.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.587	0.000	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Replacement of the currently fielded Remote Terminal Unit (RTU) with a commercial alternative.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.091	0.000	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Modification of the Expeditionary Air Defense System software for use on commercial computer hardware.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.101	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Address obsolescence issues with Stinger Ground Support Equipment as indicated by Readiness Prediction Study.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.600	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Initiate integration of various MANPAD trainers into a single easily deployable unit.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.340	
RDT&E Articles Qty					
LAAD SUSTAINMENT: Address the obsolescence with the currently fielded Stinger Night Sight.					

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2278 Air Defense Weapons Systems	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.062	1.024
RDT&E Articles Qty				
MCTIS: Program management support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.500	0.500
RDT&E Articles Qty				
MCTIS: Test and evaluation as part of the coalition CID ACTD program.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.225	0.300
RDT&E Articles Qty				
MCTIS: Engineer Design Model.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.150	0.150
RDT&E Articles Qty				
MCTIS: Risk reduction.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250
RDT&E Articles Qty				
MCTIS: Support software development.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.467	0.000
RDT&E Articles Qty				
PEDESTAL MOUNTED STINGER: Test and evaluation/risk reduction of FLIR for Avenger.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.030	0.030
RDT&E Articles Qty				
PEDESTAL MOUNTED STINGER: Engineering support for follow-on initiatives.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.169
RDT&E Articles Qty				
PEDESTAL MOUNTED STINGER: Initiate developmental test and evaluation/risk reduction of Laser Range Finder and Slip Ring for Avenger. Initiate engineering and integration of Laser Range Finder and Slip Ring for Avenger.				
(U) Total \$	11.156	28.274	23.428	9.596

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys		C2278 Air Defense Weapons Systems	
(U) PROJECT CHANGE SUMMARY:				
	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>
(U) FY 2003 President's Budget:	11.135	29.831	36.146	16.968
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions	-0.030	-1.557	0.608	0.428
(U) Congressional Rescissions				
(U) Congressional Increases				
(U) Reprogrammings	0.301		-13.323	-7.801
(U) PDB 290				
(U) SBIR/STTR Transfer	-0.250			
(U) Minor Affordability Adjustment			-0.003	0.001
(U) FY 2004 President's Budget:	11.156	28.274	23.428	9.596
CHANGE SUMMARY EXPLANATION:				
(U) Funding: Changes in FY04 and FY05 are due to realignment of programs within the Marine Corps.				
(U) Schedule: Not Applicable				
(U) Technical: Not Applicable.				

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys					C2278 Air Defense Weapons Systems				
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC LINE BLI 300600 LAAD SUS	0.000	0.181	1.996	10.449	12.221	14.779	6.135	13.620	Continuing	Continuing
(U) PMC LINE BLI 462000 CWAR (EADS)	0.414	1.166	0.000	0.000	0.000	0.000	0.000	0.000	0	1.58
(U) PMC LINE BLI 464000 CTN	0.000	0.000	0.000	8.270	22.537	34.901	43.970	68.590	Continuing	Continuing
(U) PMC LINE BLI 464000 MCTIS (CID)	0.000	0.000	0.000	0.000	0.000	0.000	0.500	15.300	Continuing	Continuing
(U) PMC LINE BLI 489000 CLAWS	0.000	0.000	0.000	17.993	26.727	28.188	19.728	3.609	Continuing	Continuing
(U) PMC LINE BLI 305000 CLAWS MISSILES	0.000	0.000	0.000	0.000	22.667	19.280	49.186	24.352	Continuing	Continuing
(U) PMC LINE BLI 464000 SH/MED RANGE AIR	0.000	0.977	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
(U) PMC LINE BLI 464200 SH/MED RANGE AIR	0.000	0.000	1.581	1.425	0.523	0.432	0.439	0.444	Continuing	Continuing
(U) PMC LINE BLI 464200 MRRS	0.000	0.000	0.000	0.000	2.067	33.156	45.635	46.789	Continuing	Continuing
(U) PMC LINE BLI 301300 PMS	0.000	1.532	0.817	12.033	6.486	9.534	3.461	8.650	Continuing	Continuing
(U) Related RDT&E:										
PE 0603216C (Ballistic Missile Defense Organization, Theater Missile Defense)										

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Sys	PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems
(U) D. ACQUISITION STRATEGY: (U) CID: This effort will continue the management of the CID program as it transitions to MCTIS (Mounted Cooperative Target Identification System) in FY04. The program will leverage heavily from the Coalition CID ACTD program and will allow for engineering analysis of competing systems as the possible MCTIS solution. (U) CLAWS: Competitively awarded fixed price contract for design and development. Additionally, there are firm fixed price production options through FY07. (U) CWAR: This effort requires R&D funds to develop, procure, install and maintain modifications to keep the Marine Air Command and Control System radar's electronics, hardware, and software viable and safe; provide upkeep of the system. Efforts are underway with APM AD weapons to award an Engineering Services and procurement contract with Raytheon Corporation. The main focus for the contract will be for the procurement of the AN/MPQ-62 Continuous Wave Acquisition Radar (CWAR), Built in Test Equipment (BITE) Diagnostics upgrade which replaces five major sub-assemblies resulting in a substantial reduction in obsolete components, an increase in system reliability and maintainability, as well as addressing any significant safety issues. (U) CTN: The USMC's CTN acquisition strategy is to participate in the USN's Program procurement and testing, making necessary modifications to support the Marine Corps requirement. The USMC CTN project will be utilizing existing and future USN CEC contracts. (U) LAAD SUSTAINMENT: The LAAD Sustainment acquisition strategy is to fix, sustain, or replace LAAD systems experiencing readiness degradation due to obsolescence. Examples include the replacement of RemoteTerminal Units, shelf life extensions to USMC Stinger Missiles, upgrading trainers to tactical configuration, upgrade present target configurations, and the replacement of Stinger Night sights. LAAD Sustainment will leverage Army interests in every available endeavor. Teaming with the Army will afford the USMC the best quantity of buy opportunities. (U) MRRS: The MRRS will build off of the ONR Affordable Ground Based Radar Science and Technology program that will demonstrate advanced mobility combined with medium range and high resolution. (U) PEDESTAL MOUNTED STINGER: This effort requires R&D funds to conduct interface testing of new equipment with USMC unique configuration to ensure requirements are maintained to keep the PMS viable, safe, and provide sustainment of the fielded weapon system. The USMC PMS project will utilize existing and future In-Service Engineering Activities. (U) SHORT/MEDIUM RANGE AIR DEFENSE RADAR: This effort requires R&D funds to develop, procure, install, and maintain modifications to keep the Short/Medium Range Air Defense radar system's electronics and hardware viable, safe, and provide sustainment of the fielded system. Efforts are underway to award a sole source Engineering Services & procurement contract with the AN/TPS-63's Original Equipment Manufacturer, Northrop Grumman. The main focus for the contract will be for the development and procurement of replacement sub-assemblies currently identified as containing obsolete components, as well as those assemblies experiencing reliability, maintainability and safety related issues. (U) MCTIS: Economy of scales dictate a strategy that highly leverages Joint/coalition evolutionary development efforts. The FY03 through FY05 Coalition Combat ID Advanced Concept Technology Demonstration (CCID ACTD) process will evaluate several millimeter wave (mmW) Target Identification systems with the objective of identifying the best system to satisfy the Marine Corps requirement. FY-04/05 efforts will focus on unique system integration efforts required on Marine Corps vehicles not already accomplished through similar Joint efforts. It is anticipated system procurement acquisition will be accomplished on a Joint/coalition basis to take advantage of parallel support efforts. (U) E. MAJOR PERFORMERS: COMPOSITE TRACKING NETWORK: FY03 NSW, Crane, IN, Engineering services. Jan 03 CLAWS: FY02 Raytheon, Sudbury, MA; Product development and developmental test. Dec 01 FY02 White Sands Missile Range, White Sands, NM; Developmental testing. Jun 02 FY02 Northrop Grumman, Stafford, VA; Program support. Oct 01 FY03 Raytheon, Tewksbury MA - Product development and developmental test - Jan 03 FY03 MCSC, Quantico VA - CEOSS Omnibus Contract program support - Jan 03 FY03 White Sands Missile Range White Sands NM - Developmental Test - Jan 03 FY04 Raytheon, Sudbury, MA; Product development and developmental test. Jan 04 FY04 White Sands Missile Range, White Sands, NM; Developmental testing. Jan 04 FY04 MCSC, Quantico VA, CEOSS Omnibus Contract; Program support - Jan 04 FY05 White Sands Missile Range, White Sands, NM; Developmental Test - Jan 05 FY05 MCSC, Quantico VA - CEOSS Omnibus Contract, Program support - Jan 05		

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Exhibit R-3 Cost Analysis							DATE: February 2003							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys				C2278 Air Defense Weapons Systems							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CWAR	RCP	Raytheon, Pelham NJ	0.000	0.124	01/02	0.000						Cont.	Cont.	
CWAR	MIPR	Redstone Arsenal, AL	0.000	0.000		0.269	01/03					0.000	0.137	0.137
S/M Range Air Defense Rdr	MIPR	Warner Robbins, GA	0.000	0.100	01/02	0.107	01/03					Cont.	Cont.	
CTN	RCP	Lockheed, Syracuse NY	0.482	0.217	12/01	0.706	01/03					Cont.	Cont.	
CTN	WR	NSWC, Dahlgren, VA	0.590	0.240	11/01	0.227	01/03					Cont.	Cont.	
CTN	WR	NSWC, Crane, IN	1.955	0.917	06/02	9.419	01/03					Cont.	Cont.	
CTN	RCP	Raytheon, St Ptsbrg, FL	0.365	0.508	04/02	0.500	01/03					Cont.	Cont.	
CTN	WR	Solipsys, Laurel, MD	1.031	0.050	01/02	0.050	01/03					0.000	1.131	
CID	WR	NSWC, Crane, IN	0.000	0.285	02/02	0.000		0.000		0.251	01/05	Cont.	Cont.	
CLAWS	RFP	Raytheon, Bedford, MA	5.500	4.109	12/01	2.000	01/03	6.776	01/04			0.000	18.385	
CLAWS	MIPR	Redstone Arsenal, AL	0.000	0.257	01/01							0.000	0.257	0.257
MRRS	RCP	Raytheon, Sudbury, MA	0.000	0.000		0.700	01/03					0.000	0.700	
LAAD SUSTAINMENT	RCP	NSWC, Crane, IN	0.000	0.000		0.156	01/03	1.525	01/04			0.000	1.681	
LAAD SUSTAINMENT	RCP	TBD	0.000	0.000		0.000		0.000		1.101	01/05	Cont.	Cont.	
PMS	RCP	NSWC, Crane, IN	0.000	0.000		0.000		0.407	01/04	0.089	01/05	Cont.	Cont.	
Subtotal Product Dev			9.923	6.807		14.134		8.708		1.441		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
SH/Med Rng Air Def Radar	WR	NSWC, Crane, IN	0.000	0.090	08/02	0.060	01/03					Cont.	Cont.	
CWAR	WR	NSWC, Crane, IN	0.000	0.025	01/02	0.000						0.000	0.025	0.025
CID	RCP	MCSC, Quantico, VA	0.450	0.126	02/02	0.202	01/03	0.150	01/04	0.374	01/05	0.000	1.302	0.652
CID	WR	NSWC, Crane, IN	0.150	0.000		0.323	01/03	0.225	10/03	0.225	01/05	0.000	0.923	0.563
CID	RCP	GSA, Bremerton, WA	0.760	0.000		0.397	01/03					0.000	1.157	1.195
CTN	WR	MCLB Albany, GA	0.020	0.002	01/02	0.010	01/03					Cont.	Cont.	
CTN	MIPR	STA, FtWorth, TX	0.432	0.178	01/02	0.160	01/03					Cont.	Cont.	
CTN	WR	CG 1st MAW	0.014	0.004	03/02	0.010	01/03					0.000	0.028	0.010
CTN	WR	2ND MAWChPt, NC	0.003	0.002	03/02							0.000	0.005	
CTN	WR	3rd MAW San Diego, CA	0.003	0.002	03/02							0.000	0.005	
CTN	WR	MARFORPAC	0.002	0.012	10/01							0.000	0.014	
CTN	WR	MCSC, Quantico, VA	0.085	0.030	10/01	0.060	01/03					Cont.	Cont.	
CLAWS	MIPR	MCSC, Quantico, VA	0.000	0.180	10/01	0.200	01/03	0.400	01/04	0.200	01/05	Cont.	Cont.	
CLAWS	MIPR	RedstoneArsenal, AL	0.000	0.233	11/01	0.300	01/03	0.300	01/04	0.225	01/05	Cont.	Cont.	
CLAWS	RCP	NSSC, Natick, MA	0.000	0.012	02/02	0.020	01/03	0.200	01/04	0.015	01/05	Cont.	Cont.	
CLAWS	RCP	NSWC, Crane, IN	0.000	0.170	03/02	0.200	01/03	0.200	01/04	0.210	01/05	Cont.	Cont.	
CLAWS	MIPR	MCSC, Quantico, VA	0.000	0.431	03/02	0.500	01/03	0.900	01/04	0.400	01/05	Cont.	Cont.	
CLAWS	MIPR	GSA, Dallas, TX	0.000	0.089	09/01	0.125	01/03	0.125	01/04	0.140	01/05	Cont.	Cont.	
CLAWS	MIPR	MCSC, Quantico, VA	0.000	0.087	04/02	0.100	01/03	0.600	01/04	0.085	01/05	Cont.	Cont.	

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3 Cost Analysis							DATE: February 2003							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys				C2278 Air Defense Weapons Systems							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
LAAD SUSTAINMENT	MIPR	TBD	0.000	0.000		0.000		0.000		0.100	01/05	Cont.	Cont.	
MRRS	MIPR	GSA, Bremerton, WA	0.000	0.000		2.050	04/03					0.000	2.050	2.050
Subtotal Support			1.919	1.673		4.717		3.100		1.974		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CWAR	RCP	Raytheon, Pelham NJ	0.000	0.121	07/02	0.000						0.000	0.121	0.121
SHORT/MEDIUM RANGE	RCP	Warner Robbins, GA	0.000	0.159	07/02	0.230	01/03					Cont.	Cont.	
CID	WR	CECOM, Ft Monmouth	0.000	0.000		0.000		0.500	01/04	0.500	01/05	Cont.	Cont.	
CTN	WR	Port Hueneme, CA	0.018	0.018	01/02	0.018	01/03					Cont.	Cont.	
CTN	WR	MCTSSA, Cp Pndltn, CA	0.003	0.032	09/01	0.035	01/03					Cont.	Cont.	
CTN	WR	MACS24 Damneck, VA	0.087	0.012	01/02	0.016	01/03					Cont.	Cont.	
CTN	MIPR	DCMS, Syracuse, NY	0.022	0.002	10/01	0.002	03/03					Cont.	Cont.	
CLAWS	WR	White Sands, NM	0.000	0.100	06/02	2.000	01/03	2.200	01/04	1.000	01/05	0.000	5.300	0.800
CLAWS		MCOTEA	0.000	0.125	11/01	0.125	11/02	0.500	11/03	0.125	01/05	Cont.	Cont.	
CLAWS	MIPR	Aberdeen, Md	0.000	0.142	06/02							0.000	0.142	0.142
CLAWS	RCP	Raytheon, Tewksbury, MA	0.000	0.000		2.820	03/03	1.500	10/03			Cont.	Cont.	
CLAWS	MIPR	JSP0, Eglin, AFB, FL	0.000	0.000		0.000		2.865	10/03	0.820	10/04	Cont.	Cont.	
LAAD SUSTAINMENT	MIPR	TBD	0.000	0.000		0.000		0.053	01/04	0.340	01/05	Cont.	Cont.	
PMS	RCP	Boeing, Huntsville, AL	0.000	0.000		0.000		0.060	01/04	0.080	01/05	Cont.	Cont.	
Subtotal T&E			0.130	0.711		5.246		7.678		2.865		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CTN	RCP	Logicon, Stafford, VA	0.591	0.277	01/02	0.487	01/03					Cont.	Cont.	
CID	RCP	NorthGrum, Stafford, VA	0.000	0.189	03/02	0.200	01/03	0.250	01/04	0.250	01/05	0.000	0.889	
CID	RCP	Anteon, Stafford, VA	0.000	0.000		0.340	01/03	0.812	01/04	0.624	01/05	Cont.	Cont.	
MRRS	MIPR	GSA, Bremerton, WA	0.000	0.000		0.650	01/03					Cont.	Cont.	
MRRS	WR	MCSC	0.000	0.000		0.100	01/03					Cont.	Cont.	
MRRS	RCP	Anteon, Stafford, VA	0.000	0.000		0.400	01/03					Cont.	Cont.	
CLAWS	RCP	NGIT, Stafford, VA	0.463	1.116	10/01	2.000	01/03	2.500	01/04	1.912	01/05	Cont.	Cont.	
CLAWS	RCP	SAIC, Washington, DC	0.000	0.383	11/01									
LAAD SUSTAINMENT	RCP	MCSC, Quantico, VA	0.000	0.000		0.000		0.150	01/04	0.300	01/05	Cont.	Cont.	
LAAD SUSTAINMENT	WR	NSWC, Crane, IN	0.000	0.000		0.000		0.200	01/04	0.200	01/05	Cont.	Cont.	
PMS								0.030	01/04	0.030	01/05	Cont.	Cont.	
Subtotal Management			1.054	1.965		4.177		3.942		3.316		Cont.	Cont.	
Remarks:														
Total Cost				11.156		28.274		23.428		9.596		Cont.	Cont.	

R-1 SHOPPING LIST - Item No. 187

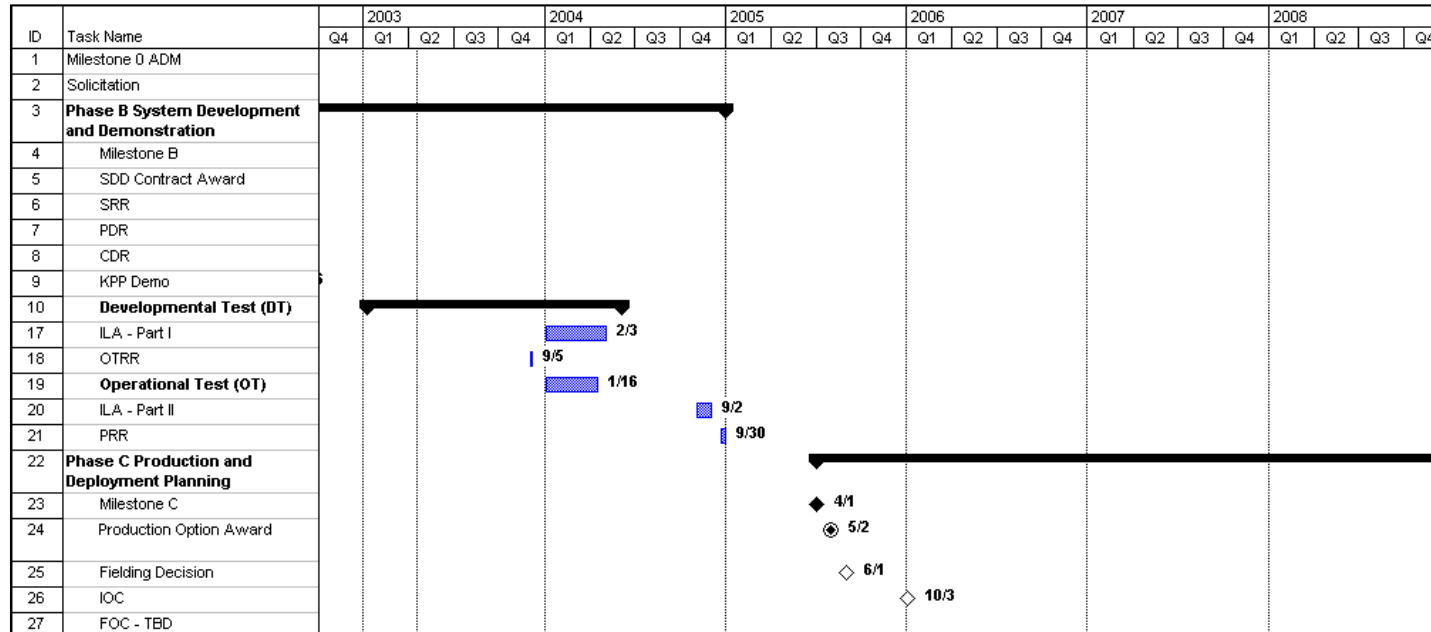
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Exhibit R-3, Project Cost Analysis
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Exhibit R-4/4a Project Schedule/Detail				DATE: February 2003			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT		PROJECT NUMBER AND NAME			
RDT&E, N /BA 7 Operational Sys Dev		0206313M Marine Corps Communication Sys		C2278 Air Defense Weapons Systems			

CLAWS Milestone Schedule



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC BLI# 489000 CLAWS

(U) PMC BLI# 305000 CLAWS MISSILES

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N	7.434	10.390	19.066	5.132	1.764	1.861	0.926	0.966	Continuing	Continuing
(U) PMC BLI# 489000 CLAWS	0.000	0.000	0.000	17.993	26.727	28.188	19.728	3.609	Continuing	Continuing
(U) PMC BLI# 305000 CLAWS MISSILES	0.000	0.000	0.000	0.000	22.667	19.280	49.186	24.352	0.000	115.485

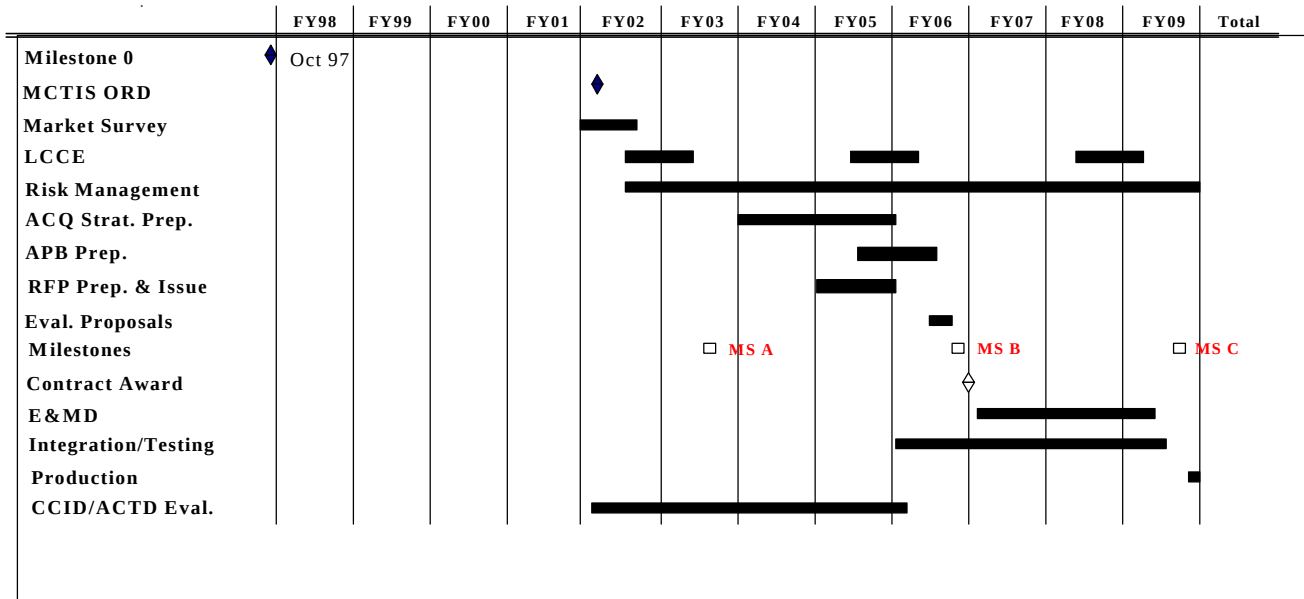
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Exhibit R-4/4a Project Schedule/Detail			DATE:	February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME		
RDT&E, N /BA 7 Operational Sys Dev	0206313M Marine Corps Communication Sys	C2278 Air Defense Weapons Systems		

MCTIS Milestone Schedule



Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(APPN, BLI #, NOMEN)										
(U) R&D Air Defense Weapons Systems (Combat ID)	0.600	1.462	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
(U) RDT&E,N	0.000	0.000	1.937	2.224	2.831	6.702	7.166	2.339	Continuing	Continuing
(U) PMC BLI# 464000 Air Ops C2 Systems	0.000	0.000	0.000	0.000	0.000	0.000	0.500	15.300	Continuing	Continuing

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Development		0206313M Marine Corps Communication Systems					C2315 Training Devices/Simulators				
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost		13.073	8.580	12.423	8.317	8.434	5.651	4.293	4.446	Cont	Cont
RDT&E Articles Qty											
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: (U) Training simulators supported by this program element include Joint Simulation System (JSIMS), Closed Loop Artillery Simulation System (CLASS), Multiple Integrated Laser Engagement System (MILES 2000), Special Effect Small Arms Marking System (SESAMS), and Combined Arms Command & Control Training Upgrade System (CACCTUS). These training systems provide tactical weapons and decision-making skill training from entry level through Marine Air-Ground Task Force (MAGTF) staff level. CLASS integrates Marine Corps training requirements with AFATDS (Advanced Field Artillery Tactical Data System). Together these systems will be interoperable and will allow for mission planning, mission rehearsal and concept evaluation in a valid synthetic environment with objective, timely feedback. Through live, virtual and constructive simulation, the Marine Corps will have the means to train jointly, educate, develop doctrine and tactics, formulate and assess operational plans, assess warfighting situations and define operational requirements.											
B. ACCOMPLISHMENTS/PLANNED PROGRAM:											
COST (\$ in Millions)		FY 2002		FY 2003		FY 2004		FY 2005			
Accomplishment/Effort Subtotal Cost		6.012		4.633		0.602		0.000			
RDT&E Articles Qty											
JSIMS: Provide technical expertise to the US Army, US Navy and US Air Force in the development of USMC specific requirements. Participate in Federate Integration Event 4 and 5 and Functional Assessment 2. Complete Version Release Milestone (VRM) 1.0 in FY03.											
COST (\$ in Millions)		FY 2002		FY 2003		FY 2004		FY 2005			
Accomplishment/Effort Subtotal Cost		2.107		0.547		6.612		3.432			
RDT&E Articles Qty											
CLASS: Map system design functions to requirements. Evaluation of system design and software for CLASS subsystems. Development of Instructor Management System and software support. system. Develop highest priority database; develop Howitzer Interface Function (MIF) and Master Control Station (MSC) subsystems; complete closed-loop development. Complete development and integration of hardware and software; complete garrison and shipboard versions; complete prototype.											
COST (\$ in Millions)		FY 2002		FY 2003		FY 2004		FY 2005			
Accomplishment/Effort Subtotal Cost		4.954		3.400		4.199		3.150			
RDT&E Articles Qty											
CACCTUS: Research Development Test and Evaluation (RDT&E) efforts. Upgrade and enhance one site of Command Arms Staff Trainer (CAST) software.											

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Development	0206313M Marine Corps Communication Systems			C2315 Training Devices/Simulators	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.544	0.994	
RDT&E Articles Qty					
MILES: Develop and integrate ground position location into fielded MILES 2000 equipment. Integrate MK19 40 mm machine gun and other new ground weapons systems into existing MILES 2000 inventory.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.466	0.741	
RDT&E Articles Qty					
SESAMS: Develop and integrate SESAMS capability into MILES 2000 to create compatibility between two systems.					
(U) Total \$	13.073	8.580	12.423	8.317	

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Development		0206313M Marine Corps Communication Systems				C2315 Training Devices/Simulators				
(U) PROJECT CHANGE SUMMARY:										
	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>						
(U) FY 2003 President's Budget:	13.548	6.145	4.464	3.208						
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions	-0.037	-0.245	-4.794	-3.403						
(U) Congressional Rescissions										
(U) Congressional Increases		3.400								
(U) Reprogrammings	-0.227	-0.720	12.761	8.514						
(U) SBIR/STTR Transfer	-0.211									
(U) Minor Affordability Adjustment			-0.008	-0.002						
(U) FY 2004 President's Budget:	13.073	8.580	12.423	8.317						
CHANGE SUMMARY EXPLANATION:										
(U) Funding: Change in funding for FY03 due to Congressional Plus to CACCTUS.										
Change in FY 04 and FY05 is due to realignment of programs within the Marine Corps.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC, BLI# 653200 Trng Dev/Sims	29.867	19.244	19.988	35.537	20.776	16.386	11.142	10.972	Continuing	Continuing
(U) Related RDT&E: Not Applicable										
(U) D. ACQUISITION STRATEGY:										
(U) JSIMS - Competitively awarded Level of Effort (LOE) contract followed by Cost Plus Fixed Fee (CPFF) contract.										
(U) CLASS - Awarded R & D to Aegis Technology, July 02 (CPFF).										
Hardware will be awarded on a separate competitive FFP contract in FY05.										
(U) CACCTUS - Competitive cost plus fixed fee contract (CPFF).										
(U) MILES - Competitively award Cost Plus Incentive Fee (CPIF) development contract.										
(U) SESAMS - Competitively award Cost Plus Incentive Fee (CPIF) development contract.										
(U) E. MAJOR PERFORMERS:										
Not Applicable for any programs with Training Devices/Simulators, C2315.										

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Exhibit R-3 Cost Analysis							DATE: February 2003							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Development			0206313M Marine Corps Communication Systems				C2315 Training Devices/Simulators							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Software Development	RCP	SPAWAR, San Diego, CA	12.665	0.830	12/01	0.830	12/02	0.000		0.000		Cont.	Cont.	
Software Development	MIPR	STRICOM, Orlando, FL	0.850	1.000	12/01							0.000	1.850	1.850
Software Development	WR	SPAWAR, San Diego, CA	2.921	0.213	12/01	0.224	12/02	0.602	12/03			Cont.	Cont.	
Software Development	RCP	MCSC, Quantico, VA	0.000	1.814	12/01	1.061	12/02	0.698	12/03			Cont.	Cont.	
Software Development	TBD	MCSC, Quantico, VA	0.000	2.102	12/01	0.573	12/02	2.000	03/04	0.274	03/05	Cont.	Cont.	
Subtotal Product Dev			16.436	5.959		2.688		3.300		0.274		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Software Development	RCP	MTS, San Diego, CA	5.000	3.853	06/02			0.646	06/04	2.852	03/05	Cont.	Cont.	
Software Development	RCP	TBD						1.000	12/03	3.300	12/04	Cont.	Cont.	
Software Development	RCP	NAWC, Orlando, FL				1.400	03/03					Cont.	Cont.	
Software Development	MIPR	PEO STRI, Orlando FL				1.400	03/03					Cont.	Cont.	
Software Development	RCP	TBD						6.469	03/04	1.443	03/05	Cont.	Cont.	
Subtotal Support			5.000	3.853		2.800		8.115		7.595			27.363	
Remarks:														
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Eval	MIPR	CECOM, FT Monmouth, NJ	3.094	0.200	12/01	0.200	12/02					Cont.	Cont.	
Subtotal T&E			3.094	0.200		0.200						Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Suppt	WR	NAWC, Orlando, FL		0.450	06/02			0.277	06/04	0.255	06/05	0.000	0.982	0.982
Govt Engineering Suppt	WR	NAWC, Orlando, FL	1.059	0.100	06/01			0.139	06/04	0.193	12/04	Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL	0.297	0.159	12/01	0.195	12/02					Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL				0.600	03/03					Cont.	Cont.	
Program Management Suppt	RCP	MCSC, Quantico, VA	0.015	1.782	12/01	2.097	12/02					Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL		0.570	12/01			0.466	12/03			Cont.	Cont.	
Program Management Suppt	WR	NAWC, Orlando, FL						0.126	12/03			Cont.	Cont.	
Subtotal Management			1.371	3.061		2.892		1.008		0.448		Cont.	Cont.	
Remarks:														
Total Cost				13.073		8.580		12.423		8.317		Cont.	Cont.	

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Exhibit R-4/4a Schedule Profile/Detail									DATE:		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT						PROJECT NUMBER AND NAME		
RDT&E, N /BA 7 Operational Sys Development			0206313M Marine Corps Communication Systems						C2315 Training Devices/Simulators		

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Exhibit R-4/4a Schedule Profile/Detail								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME				
RDT&E, N /BA 7 Operational Sys Development			0206313M Marine Corps Communication Systems					C2315 Training Devices/Simulators				
CLASS PROGRAM SCHEDULE												
	FY98	FY99	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	
MS (contract award)				◆	27 Jun 02	◆	◆	CDR				
Tech. Reviews (SW)						◆	PDR	◆				
Gov't Acceptance Test							◆					
LCCE												
Acquisition Strategy												
Development & Demo/ Prototype												
TEMP												
Production Award							◆					
Production							◆					
IOC												
FOC								◆				
COMS Support												
</												

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Systems Dev		0206313M Marine Corps Communications Systems					C2510 MAGTF CSSE & SE				
COST (\$ in Millions)		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost		5.011	4.376	23.488	18.094	10.643	8.146	8.431	8.634	Cont	Cont
RDT&E Articles Qty											
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:											
(U) The MAGTF Combat Service Support Element & Supporting Establishment (CSSE & SE) consists of mutually supporting Logistics Information Technology (IT) programs that support force deployment, planning, and execution; sustainment and distribution; and contribute to the Combatant Commander's Common Operating Picture (COP) to support rapid accurate decision making.											
1. The ATLASS PIP program funds the improvement of the existing ATLASS II+ software as well as the migration of base and station (non-deployable) USMC intermediate and consumer level supply and maintenance systems from a mainframe environment into a personal computer application using a network client-server architecture. The ATLASS PIP consolidates the total force intermediate and consumer level supply and maintenance information management functions into a single material management system. ATLASS PIP enhances ATLASS II+, retires existing mainframe legacy applications in use by the bases and stations, and improves logistic support to the operating forces. ATLASS PIP retains the flexibility to exploit existing commercial and government off-the-shelf software. This system remains compliant with the MAGTF C4I concept, GCCS COE, and published DOD standards for open systems architecture.											
2. TCAIMS II provides the hub for the OSD mandated Joint transportation suite of systems that will provide mobility and sustainment capability to all services and bring the Marine Corps into compliance with Department of Defense Reform Initiative 54. TC-AIMS II is a Joint transportation and deployment Automated Information System (AIS) supporting the DOD mission areas of mobility and sustainment. It will replace two of our MAGTF LOG AIS applications over a parallel transition starting in FY00. TC-AIMS II will be used by Command Elements, Traffic Management Offices (TMO), and all operating forces to automate the processes of planning, organizing, coordinating, and controlling deployment, redeployment, and sustainment activities worldwide, in peace as well as during contingencies. It provides modernized, scaleable, integrated, and easily deployable AIS that support reengineered deployment and business processes throughout DOD. TC-AIMS II is the key enabler towards Force Deployment Planning and Execution. It is the source system for In-Transit-Visibility (ITV) data, which provides Combatant Commanders and Components with critical visibility of items in the transportation pipeline. TC-AIMS II links all DOD Component unit movement and Installation Transportation Office/Traffic Management Office (ITO/TMO) functionality into a single transportation management system. It is a Joint ACAT 1A(M) program, with the USMC portion being handled as an ACAT III.											
3. MAGTF CSSE&SE: The CSSE Shared Data Environment is a cornerstone concept of the Integrated Logistics Capability. It will incorporate data warehousing technologies and products to provide one-stop shopping for data supporting CSSE/SE decision-making processes. It will stage CSSE/SE data and integrate decision support tools (DST) to enable command and control (C2), situational awareness, and total asset visibility at all levels of command, from the Combatant Commander to the Company Commander. The establishment of the CSSE SDE will eliminate the need for individual applications to perform these tasks for themselves and will contribute to a more cost-effective, efficient application development environment. This program, Sharded Data Enviornment (SDE), has moved from Project C2906, PE 0605013M, MC Information Technology in FY04 and beyond.											
4. Common Computer Resources (CCR) Marine Common Hardware Suite (MCHS) mission- Central and standardized management and acquisition of all Tactical common computer hardware and infrastructure adopting the Joint Defense Information Infrastructure (DII) Common Operating Environment (COE) with consolidated Integrated Logistics Support. Ensure the environment remains in synchronization with computer hardware technology hardware improvements. The mission supports the Commandant's Planning Guidance and input to the Marine Corps Master Plan. Funding for this program in FY 02 and FY03 is found under Project C2277 of this PE.											
5. Global Combat Support System (GCSS)MC is the physical implementation of the enterprise information technology architecture designed to support both improved and enhanced MAGTF Combat Service Support functions and MAGTF Commander and Combatant Commander/Joint Task Force (JTF) combat support information requirements. As such, GCSS-MC is not a single system but a portfolio of information technology capabilities tied to discrete performance measures that support required combat service support mission objectives.											

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Corps Communications Systems	C2510 MAGTF CSSE & SE		
The ILC Analysis provided the foundation for logistics transformation within the Marine Corps and established a compliance response to DRID 54, directing that logistics transformation be accomplished throughout the service components. Immediately following the guidance of DRID 54, the GCSS-Capstone Requirements Document (CRD) was approved by the JROC. The GCSS CRD requires an IOC in FY04 and FOC in FY06. Specific ILC objectives are desired by 2004. GCSS-MC is the IT solution to accomplish the transformation and GCSS objectives. GCSS-MC is an integrated set of capabilities. The capabilities will be implemented within a bottoms-up (programs of record) approach within a portfolio of systems. The portfolio of systems contributes to the primary capabilities of GCSS-MC. External portfolios will also contribute secondary to GCSS-MC capabilities through integration strategies. Primary capabilities are supply chain and combat service support oriented. Secondary capabilities and aspects of some of the above are achieved through integration with the Manpower, Acquisition and other portfolios as well as integration with Joint and other Service systems. This integration will migrate the current Shared Data Environment (SDE), Total Force Structure Management System (TFSMS), and Automated Information Technology (AIT) to an integrated Detailed Planning and Current Operations System over the long-term. The capabilities are to be matched against systems remaining after the system realignment and categorization process and then assessed for compliance, alignment and cost effectiveness versus readily available COTS and GOTS products. The GCSS-MC portfolio seeks to most effectively achieve the mandated requirements through provisioning of the capabilities not extending specific systems. GCSS-MC is the IT solution for logistics transformation being developed by the ILC. The ILC Analysis was completed during an 18-week engagement beginning in late October 1998 to early February 1999. This analysis concluded with a high-level Business Case Analysis (BCA). The BCA concluded conservatively that accomplishing the ILC actions (including re-engineered IT among others) would reduce Marine Corps inventories and reduce support requirements allowing the shifting of (2000) Marines from logistics to the battlefield by 2004 (given the current timelines). ILC action will also result in: lighter, more flexible and easier to move MAGTF; Higher CSS responsiveness: reduced stocks and CSS footprint inside the MAGTF; Less equipment for Warfighter to manage; Rapidly scaleable and deployable CSS units that have worldwide inventory visibility. Access to more reliable, accurate and actionable information that clarifies the logistics situational awareness; near real time visibility of requests for products and services allowing higher confidence and trust in logistics; and the ability to operate with greater certainty.				
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.650	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Software development efforts associated with ATLASS II+.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.622	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Program Management Support				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.254	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Development of alternative courses of action and Acquisition Strategy for Logistics and related systems transformation.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.834	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Development of an adaptive logistics command and control tool to support the planning and execution of expeditionary operations.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	1.062	0.000	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Post Phase One for the replacement of ATLASS II+.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.868	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Subsystem/components development and concept/tech demonstration of new system concepts associated with COTS replacement.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	1.696	0.000	0.000
RDT&E Articles Qty				
ATLASS PIP: Incremental software development (EAI/APIs) and conduct software testing of replacement COTS packages.				

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EXHIBIT R-2a, RDT&E Project Justification				DATE:
				February 2003
APPROPRIATION/BUDGET ACTIVITY RDT&E, N/BA-7 Operational Systems Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communications Systems			PROJECT NUMBER AND NAME C2510 MAGTF CSSE & SE
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.190	0.701
RDT&E Articles Qty				
CCR/MCHS: Environmental testing of CISC/RISC workstations.				
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.605	0.580
RDT&E Articles Qty				
CCR/MCHS: Environmental testing of CISC/RISC servers.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.299	0.241
RDT&E Articles Qty				
CCR/MCHS: Technology Insertion.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.299	0.300
RDT&E Articles Qty				
GCSS/AIT: Development of software with AIT capabilities in conjunction with the DOD AIT implementation plan.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.550	0.500
RDT&E Articles Qty				
GCSS/SDE: Program Support for configuration control board, systems integration, data architecture, integrated process team(s), and strategic plan update.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.350	0.000
RDT&E Articles Qty				
GCSS/SDE: Analysis and survey of ILC Proof-of-concept (POC) implementation.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.425	0.400
RDT&E Articles Qty				
GCSS/SDE: Requirements determination for ILC/GCSS MC data warehouse, reference data, and information exchange repository.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.350	0.500
RDT&E Articles Qty				
GCSS/SDE: Development of supporting systems architecture to support ILC POC.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.255	0.200
RDT&E Articles Qty				
GCSS/SDE: Register ILC POC systems/data into Data Management and Interoperability Repository.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.550	0.300
RDT&E Articles Qty				
GCSS/SDE: Data Analysis of data/software environment relating to ILC POC: to include GCSS MC COTS products, migration systems, and interface systems.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.325	0.300
RDT&E Articles Qty				
GCSS/SDE: Integrate ILC POC systems/data into the Integrated Logistics Data Model.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.200	1.200
RDT&E Articles Qty				
GCSS/SDE: Design and development of SDE ILC/GCSS MC data warehouse (complete with GCSS MC COTS interface).				

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EXHIBIT R-2a, RDT&E Project Justification				DATE:
				February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Corps Communications Systems		C2510 MAGTF CSSE & SE	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.755	0.700
RDT&E Articles Qty				
GCSS/SDE: Design and development of SDE ILC/GCSS MC Information Exchange repository.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.455	0.409
RDT&E Articles Qty				
GCSS/SDE: Data analysis and Cleansing of legacy data for successive implementation of GCSS MC COTS products.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.000	0.700
RDT&E Articles Qty				
GCSS-MC Enabler/WarPortal: Preparation of development and test servers and sytems integration, demonstration and testing.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.900	0.300
RDT&E Articles Qty				
GCSS-MC Enabler/WarPortal: Integration services for data center build out, Operational Tests and establishment of production operations.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.100	0.000
RDT&E Articles Qty				
GCSS-MC Enabler/WarPortal: Conference room pilots and functional testbeds for product configuration and development planning.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	3.000	0.000
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Order Management Capability to plan, direct, monitor, and control processes related to customer orders, manufacturing orders and purchase orders.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.000	3.395
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Maintenance Management Capability, which includes all types of maintenance, repair and overhaul functions and is a core capability for replacing ATLASS II+.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.079	0.697
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Asset Management Capability - The business functions of developing resource requirements, identifying sources of funding, determining cost, acquiring funds, distributing/controlling funds, tracking costs and obligations, cost capturing and reimbursement, and establishing management costs.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	3.746	1.502
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Inventory Control and Warehouse Management - basic functions required to replace ATLASS II+.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	3.000	2.000
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Basic Service Fulfillment Capability, which is the ability to manage user requests for CSS services.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.500	0.407
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Data warehouse development to meet GCSS Requirements (CINC 129 from the GCSS CRD).				

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EXHIBIT R-2a, RDT&E Project Justification				DATE:
				February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Corps Communications Systems		C2510 MAGTF CSSE & SE	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250
RDT&E Articles Qty				
GCSS-MC Supply Chain/LSM: Logistics Forecasting/Planning Capability.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.000
RDT&E Articles Qty				
GCSS-MC Decision Support/CLC2S: Enhancements to meet additional user and architecture requirements, and integrate with GCSS-MC portfolio.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.301
RDT&E Articles Qty				
GCSS-MC Decision Support/CLC2S: Services to transition S&T system into institutional support.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.124
RDT&E Articles Qty				
GCSS/TFSMS: User requested enhancements.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.863	0.295	0.547	0.000
RDT&E Articles Qty				
TC-AIMS II: Conduct operational test and evaluation of TC-AIMS II. Blocks per JTMO schedule. TC-AIMS II consists of 7 blocks, each block is individually evaluated during an IOT&E and has a separate Milestone III decision.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	1.087
RDT&E Articles Qty				
TC-AIMS II: Conduct service specific software enhancement to TC-AIMS II to provide interface capability with USMC systems.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost	0.726	0.517	0.008	0.000
RDT&E Articles Qty				
MAGTF CSSE & SE: Design & development of web-enabling technologies, messaging backbone, and integration with air/ship/rail load and joint planning & execution tools. Conduct efforts to migrate legacy system data and interfaces to the Shared Data Environment.				
(U) Total \$	5.011	4.376	23.488	18.094

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EXHIBIT R-2a, RDT&E Project Justification					DATE:
					February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Systems Dev	0206313M Marine Corps Communications Systems			C2510 MAGTF CSSE & SE	
(U) PROJECT CHANGE SUMMARY:	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
(U) FY 2003 President's Budget:	4.558	4.867	0.576	0.581	
(U) Adjustments from the President's Budget:					
(U) Congressional Program Reductions	-0.012	-0.491	-0.470	-0.706	
(U) Congressional Rescissions					
(U) Congressional Increases					
(U) Reprogrammings	0.476		23.383	18.220	
(U) SBIR/STTR Transfer	-0.111				
(U) Minor Affordability Adjustment	0.100		-0.001	-0.001	
(U) FY 2004 President's Budget:	5.011	4.376	23.488	18.094	
CHANGE SUMMARY EXPLANATION:					
(U) Funding: Change in FY02 reflects reprogramming actions need to cover under funded requirements with Marine Corps programs. Changes FY04 and FY05 are due to realignment of programs within the Marine Corps.					
(U) Schedule: TC-AIMS II Schedule change is due to inadequate IOT&E results, during November and December 2001.					
(U) Technical: Not Applicable.					

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Systems Dev		0206313M Marine Corps Communications Systems				C2510 MAGTF CSSE & SE					
(U) C. OTHER PROGRAM FUNDING SUMMARY:											
<u>Line Item No. & Name</u>		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
PMC BLI 464100 TC-AIMS II		2.623	5.181	0.000	0.682	0.000	0.000	0.000	0.000	0.000	8.486
PMC BLI 463000 CCR		27.410	38.168	54.982	68.486	80.550	96.380	97.515	99.804	0.000	563.295
PMC BLI 461400 GCSS		0.000	0.000	8.077	8.589	4.177	0.928	0.625	0.199	Cont.	Cont
(U) Related RDT&E: Not Applicable.											
(U) D. ACQUISITION STRATEGY:											
ATLASS PIP: The current acquisition strategy is to stay with SSC Chesapeake, the developer for ATLASS II+ for development work.											
TC-AIMS II: This is a joint program with the Army (PEO STAMIS). The purchase of computers will be made by PMIT and the peripherals will be made off a standard government list. The integration of the system will be performed by Global Systems, Inc. under a SPAWAR contract. TC-AIMS II is designed using a modular concept which will incorporate related functionality within a specific block. All of the block/modules will be individually tested (DT and OT), and fielded incrementally until the complete integration in 4th Qtr FY08.											
Common Computer Resources (CCR): To insure computer hardware in the operating forces keeps pace with industry computer hardware technical improvements.											
GCSS-MC will pursue an evolutionary acquisition (EA) strategy in order to field an operationally suitable and supportable capability in the shortest time possible. This flexible strategy compliments the overwhelming support GCSS-MC receives from the entire decision making chain. EA offers the fastest method to field this highest of EA priorities and allows for requirements to be time-phased as the users become more familiar with the fielded system strengths and weaknesses. In addition to quicker fielding, an EA approach is particularly well suited to software intensive programs and offers these benefits: rapidly delivers an initial capability with the explicit intent of delivering continuously improved capability in the future and reduces "cycle time" from identification of emergent user requirements, priorities and fielding. EA ensures that systems are not technologically obsolete before fielding and that money is spent only on prioritized user requirements.											
The GCSS-MC acquisition strategy is divided into two phases: optimization and modernization. The optimization phase, begun in FY01, will run through FY02, consists of planning, concept validation, operational architecture development, modeling, and Portal demonstrations. There are (2) initiatives, Autonomic Logistics (AL) and Logistics Command and Control (LC2), currently in the ACTD phase managed by ONR. The intent is to rapidly transition these advanced technology demonstrations into the GCSS Portfolio of systems beginning in FY04. The modernization phase begins at milestone C, is planned for FY03-FY09, and after initial fielding, will consist of a repetitive cycle of software improvement based on user feedback, testing, training, installation and fielding of subsequent block upgrades. Minor software upgrades will be released on a six month cycle. More substantial software improvement/system upgrade blocks will be fielded annually, as required and will include in addition to emergent user priorities, advanced technology improvements and expanded functionality. Preliminary assessment indicates that GCSS-MC will enter the acquisition gateway at milestone B, based on the architecture work already completed, SRAC validation activities and recommendations, and Portal demonstrations. Tentative milestone dates are for MS B during the 1st quarter FY03 and MS C during the 4th quarter FY04, with fielding to begin in the latter part of FY04 with continued block upgrades thereafter. IOC is initially planned to be Portal capabilities, to include divestiture of ATLASS I. FOC is validated when all Marine Corps ground components are using capabilities provided by GCSS-MC to include formal schools, and selected Marine Reserve Components. Exact milestone dates and criteria for IOC and FOC will be negotiated with the MDA as the acquisition strategy evolves.											
(U) E. MAJOR PERFORMERS:											
ATLASS PIP											
FY02 - Gartner Group, McLean, VA, Software development, Alternative solutions for new Marine Corps supply system, Nov 2001											
FY03 - Contracting information is not available at this time. Decission will be made during year of execution, Anticipate Apr 2003.											
TC-AIM II											
FY02 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Support includes scenario development, test support, data reduction, input to test requirements, Nov 2001											
FY03 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Support includes scenario development, test support, data reduction, input to test requirements, Nov 2002											
FY04 - NWSC, Crane, IN, Conduct IOT&E - supporting MCOTEA. Support includes scenario development, test support, data reduction, input to test requirements, Nov 2003											
FY05 - Contracting information is not available at this time; to be determined.											
MAGTF CSSE &SE											
FY02 - Gartner Group Inc, Mclean, VA and Robins Gioia, Alexandria, VA, Contractor support, Feb 2002.											
FY03 - Contractor will be selected during year of execution, anticipate Apr 2003.											
CCR/MCHS											
FY04 - NWSC, Crane, IN, Environment testing of servers and workstations, Jan 2004											
FY05 - NWSC, Crane, IN, Inserting new technology into servers and workstations, Jan 2005.											
GCSS											
FY04 - This is a new start program. Contracting information will be determined at a later date.											
FY05 - Contracting information will be determined at a later date.											

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Exhibit R-3 Cost Analysis										DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT						PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev				0206313M Marine Corps Communications Systems						C2510 MAGTF CSSE S&E				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
ATLASS PIP	WR	SSC Chesapeake	1.443	0.650	12/01							Cont.	Cont.	
ATLASS PIP	RCP	MCSC, Quantico, VA		2.709	11/01	1.868	04/03					Cont.	Cont.	
ATLASS PIP	TBD	TBD				1.696	04/03					Cont.	Cont.	
TC-AIMS II	C/FFP	MCSC, Quantico, VA	0.000	0.000						1.087	01/05	Cont.	Cont.	
MAGTF CSSE & SE	C/FFP	Various	0.000	0.726	02/02	0.517	04/03	0.008	01/04			Cont.	Cont.	
CCR/MCHS	WR	NSWC, Crane, Indiana	0.000	0.000		0.000		0.904	01/04	0.821	01/04	Cont.	Cont.	
GCSS LSM	TBD	TBD	0.000					13.325	01/04	8.251	01/05	Cont.	Cont.	
GCSS Warfighter Portal	TBD	TBD	0.000					2.000	01/04	1.000	01/05	Cont.	Cont.	
GCSS CLC2S	TBD	TBD	0.000							1.301	01/05	Cont.	Cont.	
GCSS/SDE	TBD	Various						3.405	04/04	2.800	04/05	Cont.	Cont.	
GCSS/TFSMS	TBD	TBD								0.124	01/05	Cont.	Cont.	
Subtotal Product Dev			1.443	4.085		4.081		19.642		15.384		Cont.	Cont.	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
GCSS/SDE	TBD	Various						1.810	01/04	1.709	01/05	0.000	3.519	
GCSS/ AIT	TBD	TBD						0.299	01/04	0.300	01/05	0.000	0.599	
Subtotal Support			0.000	0.000		0.000		2.109		2.009			4.118	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
CCR/MCHS	WR	NSWC, Crane Indiana	0.000	0.000		0.000		1.190	03/05	0.701	03/05	Cont.	Cont.	
TC-AIMS II	WR	NSWC, Crane, Indiana	0.000	0.216	11/01	0.225	11/02	0.447	11/03			0.000	0.888	
TC-AIMS II	MIPR	CECOM		0.063	01/02	0.070	11/02	0.100	11/03			0.000	0.233	
TC-AIMS II	WR	NSWC, Crane, Indiana	0.000	0.584	06/02							0.000	0.584	
Subtotal T&E			0.000	0.863		0.295		1.737		0.701		Cont.	Cont.	
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
ATLASS PIP	WR	MCSC, QUANTICO, VA		0.063	11/01							0.000	0.063	
Subtotal Management			0.000	0.063		0.000		0.000		0.000		0.000	0.063	
Remarks:														
Total Cost				5.011		4.376		23.488		18.094		Cont.	Cont.	

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Systems					C3099 RADAR SYSTEMS				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	0.000	0.000	19.810	57.762	48.143	38.931	6.110	5.080	Cont	Cont
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
1. The Aviation Radar (AN/TPS-59) is a "congressionally mandated" national asset. It is the only fielded ground-based sensor which can detect and track Theater Ballistic Missiles at ranges of 400 nautical miles, for 360 degrees up to one million feet in elevation. FY02 and FY03 funding are in Project C2273.										
2. The Ground Weapons Locating Radar (GWLRL) is an expeditionary radar that can acquire threat indirect fire systems including mortars, artillery, rocket and missile systems. The principle functions of the system will be to detect, track, classify and accurately determine the origin of enemy weapons platforms. The GWLRL will also be capable of registering and adjusting friendly indirect fire while simultaneously maintaining hostile surveillance.										
3. The Multi-Role Radar System (MRRS) will provide lightweight, expeditionary, three-dimensional radar capable of detecting Cruise Missiles (CMs), fixed and rotary winged aircraft, Unmanned Aerial Vehicles (UAVs), and will also provide an enhanced Combat Identification (CID) capability. The system will augment the AN/TPS-59(V)3 sensor coverage and will be integrated into the Navy's Cooperative Engagement Capability (CEC) and the Marine Corps Composite Tracking Network (CTN). Additionally, the system shall provide Air Traffic Control with real time surveillance coverage of all air activity within the assigned area of responsibility and will support the situational awareness and cueing for Stinger, Avenger, and CLAWS.										
4. The Short/Medium Range Air Defense Radar will develop engineering change proposals related to improved system performance with the specific purpose of meeting increased fleet operational requirements. As part of this effort, AN/TPS-63 modifications and system improvements will be researched and analyzed to determine which complement existing components to preclude an expensive USMC investment in solid-state radar technology. FY02 and FY03 funding are in Project C2278.										
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:										
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.720	0.000						
RDT&E Articles Qty										
AN/TPS-59: Develop acquisition documentation for modernization initiative.										
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.896	1.936						
RDT&E Articles Qty										
AN/TPS-59: In-house program management/government expense for modernization initiative.										
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.352	0.557						
RDT&E Articles Qty										
AN/TPS-59: Contractor service support.										
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005						
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.696	17.647						
RDT&E Articles Qty										
AN/TPS-59: System development and demonstration for modernization initiative.										

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EXHIBIT R-2a, RDT&E Project Justification				DATE:	
				February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.892	2.606	
RDT&E Articles Qty					
AN/TPS-59: Develop ECPs for software improvements and DMS issues.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
AN/TPS-59: Efforts funded in FY02 and FY03 under Project C2273 of this PE. Demonstrate potential antenna technology/slotted waveguide antenna (FY02 \$5.907); Develop Engineering Change Proposal (ECP) to incorporate electronic protection (FY02 \$1.612); Develop ECP to incorporate new transmitters for the antenna (FY02 \$1.500); ECP false alarm adaption software (FY02 \$1.098); Develop ECP for software improvements (FY03 \$1.939); Develop AFAR Software (FY03 \$1.500); Investigate Advanced Technologies (FY03 \$2.100) .					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
CWAR: Efforts funded in FY02 and FY03 under Project C2278 of this PE. Developmental Test and Evaluation(FY02 \$0.121); Development of Engineer Design Model (FY02 \$0.124); Lease of Sentinel Radars (FY03 \$0.211);Program management support (FY02 \$0.025) and (FY03 \$0.058).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.325	0.000	
RDT&E Articles Qty					
GWLR: Refinement of ORD, Acquisition Strategy, Acquisition Baseline Agreement, and Life Cycle Cost Estimate.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	1.169	1.600	
RDT&E Articles Qty					
GWLR: Test and evaluation of Marine Corps equipment configuration of the AN/TPQ-47.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.193	0.202	
RDT&E Articles Qty					
GWLR: Program management support.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.272	
RDT&E Articles Qty					
GWLR: Development of Configuration Management Plan and ILS Plan.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	4.164	0.000	
RDT&E Articles Qty					
MRRS: Affordable Ground Based Radar . Funding (\$0.383) in FY03 for this effort is provided under Project C2278 of this PE.					

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	2.106	1.000	
RDT&E Articles Qty					
MRRS: Program management support. Funding (\$1.150) in FY03 for this effort is provided under Project C2278 of this PE.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.500	0.000	
RDT&E Articles Qty					
MRRS: Analysis of antenna alternatives, analysis of system integration solutions.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000	
RDT&E Articles Qty					
MRRS: Antenna design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.500	
RDT&E Articles Qty					
MRRS: Transmitter design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	11.000	
RDT&E Articles Qty					
MRRS: Software design and development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	4.000	
RDT&E Articles Qty					
MRRS: Hardware design and development.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	3.000	
RDT&E Articles Qty					
MRRS: Receiver/exciter design.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	4.675	
RDT&E Articles Qty					
MRRS: Developmental testing.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	2.000	
RDT&E Articles Qty					
MRRS: System integration.					

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EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Systems			C3099 RADAR SYSTEMS	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
MRRS: Efforts funded in FY03 under Project C2278 of this PE. Refinement of the ORD, Campaign Level Effectiveness Analysis, Analysis of Alternatives and Life Cycle Cost Estimate (\$2.367).					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.135	0.135	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Program management support. Funding in FY02 (\$0.110) and in FY03 (\$0.110) for this effort is found under Project C2278 of this PE.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.337	0.000	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Developmental Test and Evaluation of the Frequency Generator assembly.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.325	0.000	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Engineer Design Model of the Frequency Generator assembly.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.382	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Developmental test and evaluation of the Low Level Power Supply assembly.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.250	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Engineer Design Model of the Low Level Power Supply assembly.					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	
Accomplishment/Effort Subtotal Cost	0.000	0.000	0.000	0.000	
RDT&E Articles Qty					
SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Efforts funded in FY02 and FY03 under Project C2278 of this PE. Development Test and Evaluation of the High Voltage Power Supply and RF/IF Receiver circuit card (FY02 \$0.139); Development of Engineer Design Model of the High Voltage and RF/IF Receiver assemblies (FY02 \$0.100); Developmental Test and Evaluation of Receiver sub-assemblies (FY03 \$0.137); Development of Engineer Design Model of Receiver sub-assemblies (FY03 \$0.150); Program Management Support (FY02 \$0.110) and (FY03 \$0.110) .					
(U) Total \$ (C3099 Radar Systems)	0.000	0.000	19.810	57.762	

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 OPERATIONAL SYS DEV		0206313M Marine Corps Communication Systems				C3099 RADAR SYSTEMS				
(U) PROJECT CHANGE SUMMARY:		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>					
(U) FY 2003 President's Budget:		0.000	0.000	0.000	0.000					
(U) Adjustments from the President's Budget:										
(U) Congressional/OSD Program Reductions				-0.674	-1.348					
(U) Congressional Rescissions										
(U) Congressional Increases										
(U) Reprogrammings				20.484	59.110					
(U) SBIR/STTR Transfer										
(U) Minor Affordability Adjustment										
(U) FY 2004 President's Budget:		0.000	0.000	19.810	57.762					
CHANGE SUMMARY EXPLANATION:										
(U) Funding: This is a new project created by the realignment of programs within the Marine Corps during POM 04.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) PMC, BLI#465100, AN/TPS-59 (NON TEL)	0.000	0.000	18.211	24.536	7.480	11.951	38.914	50.443	Continuing	Continuing
(U) PMC, BLI#463600, AN/TPS-59 (NON TEL)	5.179	7.464	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.643
(U) PMC, BLI#464200, Ground Weapon Locator Radar	0.000	0.000	0.052	0.862	0.820	28.830	0.285	0.295	Continuing	Continuing
(U) PMC, BLI#462000, AN/TPQ-46/46A Upgrade	0.000	4.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.167
(U) PMC, BLI#464200, Multi-Role Radar System	0.000	0.000	0.000	0.000	2.067	33.156	45.635	46.789	Continuing	Continuing
(U) PMC, BLI#464000, Short/Med Range Radar	0.000	0.977	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.977
(U) PMC, BLI#464200, Short/Med Range Radar	0.000	0.000	1.581	1.425	0.523	0.432	0.439	0.444	Continuing	Continuing
(U) Related RDT&E:										

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206313M Marine Corps Communication Systems	C3099 RADAR SYSTEMS
(U) D. ACQUISITION STRATEGY: (U) AN/TPS-59 RADAR Modernization: The modernization initiative will encompass all 11 radar systems within the Marine Corps inventory. Due to technological advances, evolving threats, mobility issues, changes in employment concepts (OMFTS and EMW), interface requirement imposed by developing systems (CAC2S, CEC/CTN and CLAWS) and requirements outlined in the Capstone Requirements Documents (CID, TAMD, GIG, and IDM), the AN/TPS-59(V)3 must undergo modernization. The Acquisition Strategy is based on the recommendations from the Business Case Analysis and two independent modernization studies. Beginning in FY04, the program office will start R&D efforts that will incorporate the ORD change 4 requirements into the current 11 fielded AN/TPS-59(V)3 radars. It is anticipated that this effort will require 3 years of R&D with a combined DT/OT. Forecasted IOC is FY08 with FOC for 11 systems occurring in FY13. (U) AN/TPS-59 Radar SLEP: The Program Office intends to address Diminishing Manufacturing Sources (DMS) issues by continuing with the Service Life Extension Program (SLEP) started in POM 02 initiative and they will also begin R&D efforts that will modernize the radar with advanced technology and performance capabilities. A Business Case Analysis (BCA) was completed which incorporated two independent obsolescence/DMS studies that identified critical components which will severely impact the system performance and readiness by FY07. Based upon the BCA, the program office intends to sustain 5 of the 11 systems. The refurbishing and sustaining of 5 systems will enable 3 active (1 per MEF), 1 supporting and 1 reserve unit to have a system with current technology, extend system life cycle and lower the radars' overall operating cost. The remaining 6 systems will transition during the modernization effort. (U) The Ground Weapons Locating Radar (GWLR) AN/TPQ-47 is a U.S. Army lead program. With the exception of some minor Marine Corps specific equipment configuration changes, all prototype development, testing, and system integration will be conducted by the U.S. Army. The AN/TPQ-47 radar is an interim solution to the GWLR, as the AN/TPQ-47 radar does not meet all of the requirements in the GWLR ORD. However, the maturity of the U.S. Army's AN/TPQ-47 radar program will provide a radar system that has the extended range capability needed for the MAGTF to match the range of the High Mobility Artillery Rocket System (HIMARS). Funding for PMC for FY04-FY06 will be for Life Cycle Upgrade and to procure Battery Chargers. HIMARS IOC is scheduled for FY07. (U) MRRS: The MRRS will build off the ONR Affordable Ground Based Radar Science and Technology program that will demonstrate advanced mobility combined with medium radar range, high resolution, and superior clutter reduction. FY04 waiting for Source Selection, FY06 PMC funding is for a long lead item. (U) SHORT/MEDIUM RANGE AIR DEFENSE RADAR: This effort requires R&D funds to develop modifications to keep the Short/Medium Range Air Defense Radar System's electronics and hardware viable and safe, providing sustainment for the fielded system. Efforts are underway to award a sole source Engineering Services and procurement contract with the AN/TPS-63's Original Equipment Manufacturer, Northrop Grumman. The main focus of the contract will be the development and procurement of replacement sub-assemblies currently identified as containing obsolete components, as well as those assemblies experiencing reliability, maintainability and safety related issues. (U) E. MAJOR PERFORMERS: (U) Lockheed Martin Corp, Syracuse, NY. Projected to be put on contract in Jan 04 for AN/TPS-59 to develop ECPs for software improvements and DMS issues. (U) Contractors TBD by competitive sourcing, projected to be put on contract in Jan 04 to support the AN/TPS-59 modernization initiative for in-house program management/government expense and system development/demonstration and to develop acquisition documentation. (U) Contractor TBD by competitive sourcing. Projected to be put on contract in Jan 05 to support the AN/TPS-59 modernization initiative for in-house program management/government expense and system development/demonstration. Contractors TBD by competitive sourcing. (U) Raytheon, El Segundo, CA. Projected to be put on contract in Jan 04 for test and evaluation of Marine Corps equipment configuration of the AN/TPQ-47 in support of GWLR. (U) Raytheon, Sudbury, MA. Projected to be put on contract in Jan 04 for the Affordable Ground Based Radar (AGBR) in support of MRRS. (U) GSA, BREMERTON, WA. Projected to be put on contract in Jan 04 for writing and reviewing MRRS documentation and performing an AGBR evaluation. (U) Contractor TBD by competitive sourcing, projected to be put on contract in Mar 05 for MRRS software design and development.		

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Exhibit R-3 Cost Analysis										DATE: February 2003					
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					C3099 RADAR SYSTEMS							
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
AN/TPS-59	C/CPFF	Lockheed, Syracuse NY	0.000	0.000		0.000		2.892	01/04	2.606	01/05	Cont.	Cont.		
AN/TPS-59	TBD	TBD	0.000	0.000		0.000		6.312	01/04	19.583	01/05	Cont.	Cont.		
MRRS	RCP	Raytheon, Sudbury, MA	0.000	0.000		0.000		4.164	01/04	0.000		0.000	4.164		
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		3.000	01/05	Cont.	Cont.		
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		3.500	01/05	Cont.	Cont.		
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		11.000	03/05	Cont.	Cont.		
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		4.000	01/05	Cont.	Cont.		
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		3.000	01/05	Cont.	Cont.		
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		2.000	01/05	Cont.	Cont.		
SHORT/MEDIUM RANGE	RCP	Northrop Grumman	0.000	0.000		0.000		0.325	03/04	0.250	03/05	Cont.	Cont.		
Subtotal Product Dev			0.000	0.000		0.000		13.693		48.939		Cont.	Cont.		
Remarks:															
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
GWLR	WR	NSWC, Dahlgren, VA	0.000	0.000		0.000		0.047	01/04	0.051	01/05	Cont.	Cont.		
GWLR	WR	Northrup Grumman	0.000	0.000		0.000		0.146	01/04	0.151	01/05	Cont.	Cont.		
MRRS	WR	NSWC, Dahlgren, VA	0.000	0.000		0.000		0.500	01/04	0.000		0.000	0.500		
SHORT/MEDIUM RANGE	WR	NSWC, Crane, IN	0.000	0.000		0.000		0.135	01/04	0.135	01/05	Cont.	Cont.		
Subtotal Support			0.000	0.000		0.000		0.828		0.337		Cont.	Cont.		
Remarks:															

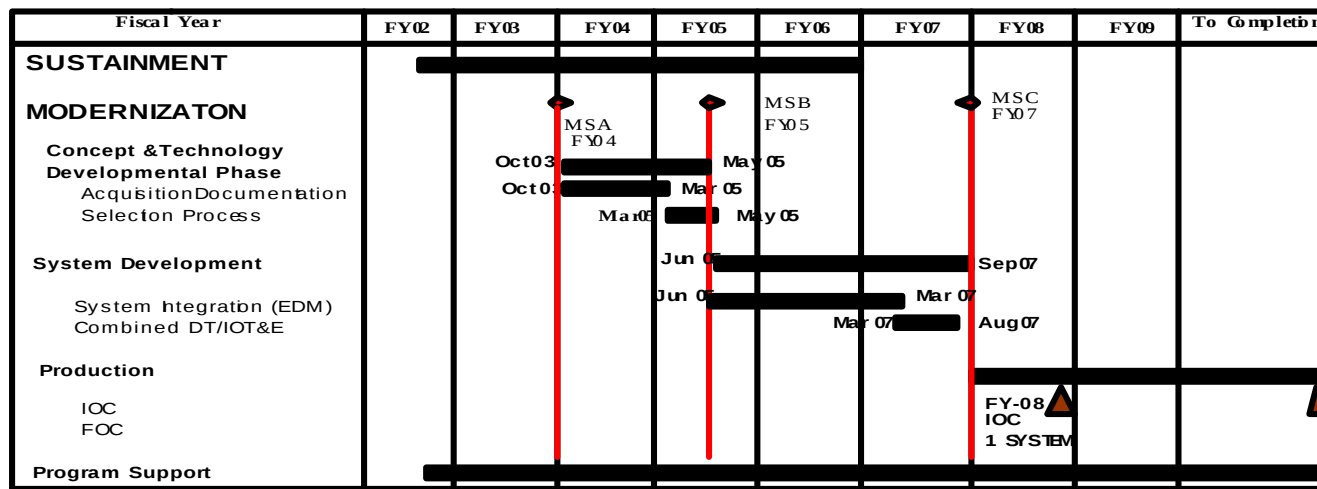
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Exhibit R-3 Cost Analysis											DATE: February 2003			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 OPERATIONAL SYS DEV			0206623M Marine Corps Ground Combat/Supporting Arms Systems					C3099 RADAR SYSTEMS						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
GWLR	RCP	Raytheon, El Segundo, CA	0.000	0.000		0.000		1.169	01/04	1.600	01/05	Cont.	Cont.	
MRRS	RCP	Contractor TBD	0.000	0.000		0.000		0.000		4.675	01/05	Cont.	Cont.	
SHORT/MEDIUM RANGE	RCP	Warner Robins AFB, GA	0.000	0.000		0.000		0.337	03/04	0.382	01/05	Cont.	Cont.	
Subtotal T&E			0.000	0.000		0.000		1.506		6.657		Cont.	Cont.	
Remarks:														
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
AN/TPS-59	CPFF	Anteon, Stafford, VA	1.739	0.000		0.000		1.352	01/04	0.557	01/05	Cont.	Cont.	
GWLR	MIPR	GSA, Bremerton, WA	0.000	0.000		0.000		0.325	01/04	0.272	01/05	Cont.	Cont.	
MRRS	MIPR	GSA, Bremerton, WA	0.000	0.000		0.000		1.616	01/04	0.317	01/05	Cont.	Cont.	
MRRS	RCP	MCSC, Quantico, VA	0.000	0.000		0.000		0.490	01/04	0.683	01/05	Cont.	Cont.	
Subtotal Management			1.739	0.000		0.000		3.783		1.829		Cont.	Cont.	
Remarks:														
Total Cost			0.000	0.000		0.000		19.810		57.762		Cont.	Cont.	

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Exhibit R-4-4a Project Schedule/Detail			DATE:	February 2003
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	C3099 RADAR SYSTEMS		

Milestone Schedule AN/TPS-59 Sustainment/Modernization



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N, C2273	10.177	5.539	0.562	0.000	0.000	0.000	0.000	0.000	0.000	16.278
(U) RDT&E,N, C3099	0.000	0.000	10.556	22.746	25.793	21.386	4.847	3.818	Continuing	Continuing
(U) PMC, BLI#463600, AN/TPS-59	5.179	7.464	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.643
(U) PMC, BLI#465100, AN/TPS-59	0.000	0.000	18.211	24.536	7.480	11.951	38.914	50.443	Continuing	Continuing

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Exhibit R-4-4a Project Schedule/Detail							DATE: February 2003			
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			C3099 RADAR SYSTEMS					
	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
AN/TPS-59 SUSTAINMENT SCHEDULE	3rd Q-----			4th Q						
AN/TPS-59 MODERNIZATION SCHEDULE DETAIL										
Milestone A			1st Q							
Concept & Technology Developmental Phase			1st Q-----	3rd Q						
Acquisition Documentation			1st Q-----	2nd Q						
Selection Process				2nd Q-3rd Q						
Milestone B				3rd Q						
System Development				3rd Q-----		4th Q				
System Integration (EDM)				3rd Q-----		2nd Q				
Combined DT/IOT&E						2nd Q-4th Q				
Milestone C						4th Q				
Production							1st Q-----			
IOC							4th Q			
FOC										
Program Support	3rd Q-----									

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Exhibit R-4-4a Project Schedule/Detail			DATE:	February 2003
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	C3099 RADAR SYSTEMS		

GROUND WEAPONS LOCATING RADAR SCHEDULE PROFILE

Milestone Schedule/Total Resource Summary

	FY04	FY05	FY06	FY07	FY08	FY09	TOTAL
MILESTONE B	◆						
Phase B Activities	■	■					
Program Docs							
System Integration							
Developmental Testing							
MILESTONE C			◆				
Phase C Activities			■	■	■	■	
Operational Test			■				
Full Rate Production				■	■	■	
IOC				◇			
FOC						◇	

Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
(U) RDT&E,N, C3099, GWLR	0.000	0.000	1.687	2.074	0.988	0.316	0.000	0.000	0.000	5.065
(U) PMC, BLI#464200, GWLR	0.000	0.000	0.052	0.862	0.820	28.830	0.285	0.295	Continuing	Continuing
(U) PMC, BLI#462000, AN/TPQ-46/46A Upgrade	0.000	4.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.167

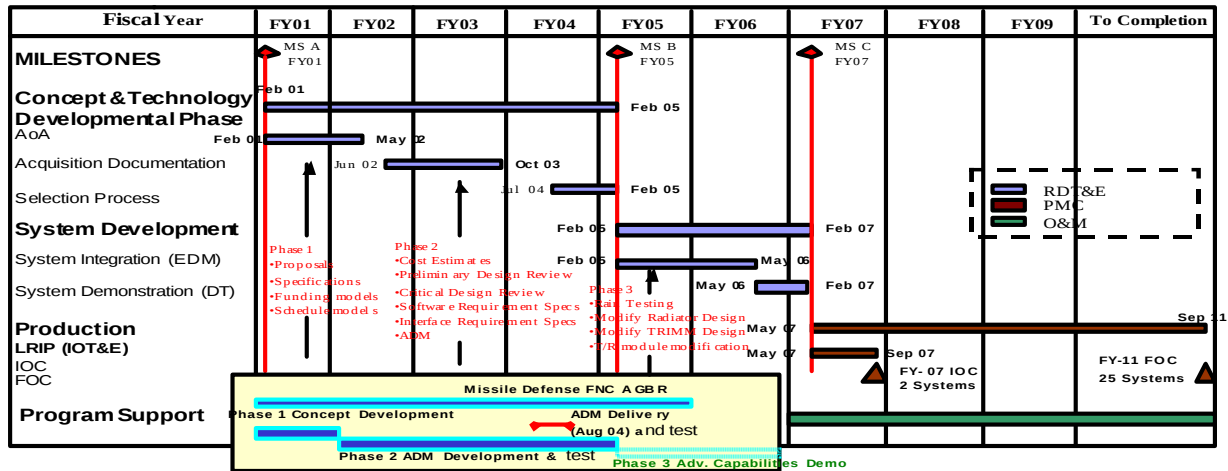
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Exhibit R-4-4a Project Schedule/Detail			DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 OPERATIONAL SYS DEV	0206623M Marine Corps Ground Combat/Supporting Arms Systems	C3099 RADAR SYSTEMS	

MRRS Milestone Schedule/Total Resource Summary



R-1 SHOPPING LIST - Item No. 187

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Exhibit R-4-4a, Schedule Profile/Detail
(Exhibit R-4/4a, page 59 of 68)

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems				C9273 Defense Emergency Response Fund (DERF)					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program
Project Cost	0.000	12.490	0.000	0.000	0.000	0.000	0.000	0.000	Cont	Cont
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: 1. Intelligence System Readiness (ISR) Program will provide timely and targeted solutions to better enable the MAGTF Commander to accomplish his mission by (1) injecting technology rapidly, and (2) conducting up-front testing and integration. The current Marine Corps Intelligence architecture encompasses dozens of systems, acquired over a span of decades, often with little regard for interoperability. Additionally, some systems have gaps in functionality and interoperability which, when balanced against rapid advancements in technology, bring those systems to the brink of obsolescence. The ISR Program enhances the Marine Corps Intelligence Architecture by mitigating operational shortfalls through Commercial-Off-The-Shelf (COTS), Government-Off-The-Shelf (GOTS) and Non-Developmental Item (NDI) technology. In this way, ISR provides proof-of-concept prototypes and focused Research and Development (R&D) efforts to support the Marine Corps Intelligence Architecture and shorten the time required to fill gaps and field systems. The ISR program Team also trains Marines to maximize new systems and capabilities. 2. The Interim Small Unit Remote Scouting System (I-SURSS) funds will be used for development, demonstration and testing of product improvements and block upgrades. 3. The JSIPS-TEG is a highly mobile imagery ground station designed to receive and process tactical imagery in support of the MEF/MAGTF commander. This Common Imagery Ground Surface System (CIGSS) is an integral component of the USMC Distributed Common Ground Station (DCGS) architecture that enables the MEF/MAGTF commander to remain interoperable with other Joint and USMC C4I systems. The system provides the capability to receive, process, store, exploit (to include PGM targeting support), and disseminate national theater, and tactical imagery, as well as providing interoperability with the Army's Tactical Exploitation System (TES), the Navy's Joint Services Imagery Processing System - Navy (JSIPS-N), and the Air Force Intelligence Systems Reconnaissance Manager (ISRM) systems during joint engagements. 4. Manpack Secondary Imagery Dissemination System (MP SIDS) is a Commercial-Off-The-Shelf (COTS) refresh of a fielded system. MP SIDS consists of one (1) Base Station and three (3) Portable Outstations. It is used by the Reconnaissance Marines to electronically receive, process, reproduce, and disseminate near-real-time imagery throughout the battlefield to support all echelons of the MAGTF. 5. The Radio Reconnaissance Equipment Program (RREP) provides the Radio Battalions, Radio Reconnaissance Platoons (RRP) with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. Continuing with an evolutionary acquisition approach, the third suite RREP-SS-2 will provide the RRP with the capability to conduct SIGINT/EW operations in support of Marine Air Ground Task Force (MAGTF) Commanders during advance force special operations, and other special purpose missions where the use of conventional Radio Battalion assets are not feasible. RREP-SS-2 is a ruggedized, modular; man packable system specifically designed utilizing emerging NDI/COTS/GOTS technology for RRP operations, particularly those conducted under the most austere conditions. The RREP SS-3 will be fielded in the 1st Qtr FY04. It will have the added capability to intercept advanced wireless targets identified by the NSA to be operated from remoted positions. SS-3 will extend its life cycle to six years and product improvements will focus on new software and DSP technologies which may be incorporated into the existing system. This approach allows the program to utilize the major components for the entire life-cycle while still keeping pace. 6. TACPHOTO provides the capability for digital imagery to be captured throughout the remainder of the Marine Corps. TACPHOTO provides the unique view required for the majority of the ground-based operations. It provides high-end digital still-photo camera with long-range telephoto and other special lenses including a night vision capability. 7. Technical Control Analysis Center (TCAC). The primary mission of the TCAC is to provide the Radio Battalions (RadBn) with an automated Signals Intelligence (SIGINT) processing, analysis, and reporting capability. The TCAC system is designed to receive collected intelligence from tactical, theater and National level producers and provide a multi-source fused intelligence production capability to support the Marine Air Ground Task Force (MAGTF) commander via the Intelligence Analysis System (IAS), as well as the National Security Agency (NSA) and other National consumers.										

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	February 2003
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C9273 Defense Emergency Response Fund (DERF)
8. Tactical Exploitation of National Capabilities (TENCAP) is a program designed to enhance the ability of tactical Marine Corps forces to exploit the capabilities of national intelligence-gathering systems. Congressionally directed, it requires close liaison with the intelligence community and involves complex and highly-sensitive activities. 9. Team Portable Collection System - Multi-Platform Capable - The TPCS- MPC will provide the MAGTF commander with a modular and scaleable carry on/off suite of equipment capable of conducting Signals Intelligence (SIGINT) operations onboard organic non-dedicated Marine Corps air, ground, and water borne platforms. The TPCS-MPC will be highly modular, mission configurable, multi-platform system incorporating plug-and-play technologies. The system will provide state-of-the-art, versatile air/ground/water borne SIGINT and EW support to the MAGTF through the use of lightweight, flexible mission equipment suites capable of detecting, identifying, locating, and exploiting current and emerging communications technologies, intercepting non-communication signals, and improving the system's geolocation accuracy.		
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:		
COST (\$ in Millions)	FY 2002	FY 2003
Accomplishment/Effort Subtotal Cost		1.171
RDT&E Articles Qty		
ISR: Funds are for CIHEP migration to GCCS-I3, Development of ISR Architecture Replication and Program Engineering Support.		
COST (\$ in Millions)	FY 2002	FY 2003
Accomplishment/Effort Subtotal Cost		2.439
RDT&E Articles Qty		
I-SURSS: Funds will accelerate the development of SURSS.		
COST (\$ in Millions)	FY 2002	FY 2003
Accomplishment/Effort Subtotal Cost		0.976
RDT&E Articles Qty		
JSIPS TEG: Fielding the TIGDIL-II, Procure and Deploy New Platforms and Upgrade CDL Software Baseline.		
COST (\$ in Millions)	FY 2002	FY 2003
Accomplishment/Effort Subtotal Cost		0.293
RDT&E Articles Qty		
MANPACK SIDS: Upgrade Adv/Basic Camera's, computer and Software, Video technology and Perform 3 FUE.		
COST (\$ in Millions)	FY 2002	FY 2003
Accomplishment/Effort Subtotal Cost		0.293
RDT&E Articles Qty		
RREP: Research Alternative Power Development, Contractor Logistic Support.		
COST (\$ in Millions)	FY 2002	FY 2003
Accomplishment/Effort Subtotal Cost		0.098
RDT&E Articles Qty		
TACPHOTO: Upgrade Adv/Basic Camera's, Video Technology and Protective Measures.		

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems		C9273 Defense Emergency Response Fund (DERF)	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		2.439		
RDT&E Articles Qty				
TCAC: Conduct Hardware Server, Client Workstation, peripheral/ancillary replacement study, ELINT H/W and S/W Study.				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		1.464		
RDT&E Articles Qty				
TENCAP:				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005
Accomplishment/Effort Subtotal Cost		3.317		
RDT&E Articles Qty				
TPCS: MPC Development receiver, Upgrade and LMFG Operational Test generators.				
(U) Total \$	0.000	12.490	0.000	0.000
	FY2002	FY2003	FY2004	FY2005
(U) Project Change Summary				
(U) FY 2003 President's Budget:	0.000	0.000	0.000	0.000
(U) Adjustments from the President's Budget:				
(U) Congressional/OSD Program Reductions		-0.310		
(U) Congressional Rescissions				
(U) Congressional Increases		12.800		
(U) Reprogrammings				
(U) SBIR/STTR Transfer				
(U) FY 2004 President's Budget:	0.000	12.490	0.000	0.000
CHANGE SUMMARY EXPLANATION:				
(U) Funding: See Above.				
(U) Schedule: Not Applicable.				
(U) Technical: Not Applicable.				

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003						
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Systems			C9273 Defense Emergency Response Fund (DERF)						
(U) C. OTHER PROGRAM FUNDING SUMMARY:											
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost	
PMC BLI# 462000 ISR	0	1.683	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
PMC BLI# 473400 SURSS	0	0	2.058	10.092	11.759	0.928	0.954	0.969	Continuing	Continuing	
PMC BLI# 475000 ISURSS	0	4.155	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
PMC BLI# 463600 FLAMES (CESAS)	0	2.936	0.000	1.000	4.194	4.099	0.488	1.385	Continuing	Continuing	
PMC BLI# 474700 TACPHOTO	0	1.584	0.000	0.000	0.000	3.427	0.153	1.192	Continuing	Continuing	
PMC BLI# 474700 JSIPS TEG	5.699	11.427	2.905	0.618	0.000	0.000	0.000	0.000	Continuing	Continuing	
PMC BLI# 474700 RREP	0	3.939	0.000	0.000	4.194	0.000	0.000	4.228	Continuing	Continuing	
PMC BLI# 474700 MANPACK SIDS	0	0	1.062	2.857	1.711	1.712	1.762	1.721	Continuing	Continuing	
PMC BLI# 474900 TCAC	0.863	1.462	0.345	1.545	0.945	0.945	0.945	1.145	Continuing	Continuing	
PMC BLI# 474900 TPCS	0	8.097	0.005	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
(U) Related RDT&E: Not Applicable.											
(U) D. ACQUISITION STRATEGY:											
(U) ACQUISITION STRATEGY ISR: The ISR Program is embracing the capabilities-based, evolutionary approach of the new DoD 5000 series guidance to allow for a quick and efficient insertion of technology to the MAGTF. Currently, full-time contractor support is provided by BAE Applied Technologies, Bulldog Technical Services, and MTC Services Corporation. All Contractor support is resident within the ITS facility.											
(U) ACQUISITION STRATEGY ISURSS: I-SURSS is an abbreviated acquisition program designed to rapidly transition a Science and Technology development effort through the system demonstration phase to production and deployment. The Dragon Eye Unmanned Aerial Vehicle system will be modified through evolutionary upgrades to meet a time phased range of SURSS requirements outlined as blocks in the SURSS ORD. Two competitive engineering support contracts were awarded in July 2001 and pre-production assets were built to conduct evaluations. The Government will conduct source selection from the data gathered and award a production contract in the 4th Quarter of FY03.											
(U) ACQUISITION STRATEGY JSIPS TEG: The three deployed TEG(s) were procured from an ESC USAF Raytheon contract. During FY02, the Marine Corps brought control of the TEG program into Marine Corps System Command. A contract is in place with SPAWAR Charleston, SC to upgrade the TEG(s), conduct training, provide logistical support, sustainment and program management. Once a system baseline is established and tested, a MS III decision will be scheduled.											
(U) ACQUISITION STRATEGY MP SIDS: Seventy three (73) suites of the refreshed MP SIDS have been integrated and are in-process of being fielded. Fielding will be accomplished during the FY 02-03 timeframe. A contract is in place with SPAWAR Charleston, SC to provide configuration management, research and development and program management support. The MP SIDS has an established baseline and will receive a technological refresh of 33% of the system each year for FY 04 through 06.											
(U) D. ACQUISITION STRATEGY RREP: The RREP will incorporate and integrate cutting edge technologies through the use of Commercial off the Shelf (COTS) components to include Marine Corps Common Hardware components and Government off the Shelf (GOTS) DII COE compliant software. Contract is Cost Plus Fixed Fee (CPFF).											
(U) ACQUISITION STRATEGY TACPHOTO: A contract is in place with NGIT, Stafford VA to provide configuration management, research and development and program management support. Conduct field evaluations, Intragrated Product Team meetings, field evaluation plans and reports.											

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C9273 Defense Emergency Response Fund (DERF)
(U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements. (U) ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts. (U) ACQUISITION STRATEGY TPCS: TPCS, the ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. These technology insertions and product improvements will ensure the Radio Battalions maintain cutting edge technologies and collection capabilities. (U) E. MAJOR PERFORMERS: INTEL SYSTEM READINESS (ISR) FY03 MTC Services Corporation (MTC) Stafford, VA. Provide funds for engineering and program management support. Austin Information System, Austin TX. Provide funds for software development. INTERIM SMALL UNIT REMOTE SCOUTING SYSTEM (I-SURSS) FY 03 BAE Systems Stafford, VA. Provide funds for program management and technical support. JOINT SERVICE IMAGERY PROCESSING SYSTEM-TACTICAL EXPLOITATION GROUP (JSIPS-TEG) FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for prime integration. NAVAL SURFACE WARFARE CENTER (NSWC), Crane IN, Provide funds for Operational Testing support. MARCORSYSCOM, Quantico VA. Provide funds for software development of software baseline. AFB, Wash, DC Classified Contract . L3 COMM, Salt Lake City UT. Provide funds for TIGDL development. MANPACK SIDS (MP SIDS) FY 03 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support. RADIO RECONNAISSANCE EQUIPMENT PROGRAM (RREP) FY03 NAVAL SURFACE WARFARE CENTER, Crane IN. Funds for engineering and program management support for Suite-3. Nov 03 TACPHOTO FY 03 SPAWAR, CHARLESTON, S.C. Provide funds to EMA for training and integration. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), Provide funds for program management and field testing technical support. TACTICAL CONTROL AND ANALYSIS CENTER (TCAC) FY 03 TITAN, Fairfax, VA. Provide funds to develop additional analytical tools, integrate software changes and migrate software baseline to COE 4.x and beyond. Integrate new hardware/software into existing systems.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems	C9273 Defense Emergency Response Fund (DERF)
TENCAP FY 03 SMC/XRBP WASHINGTON , DC Provide funds to develop new intel applications and means to receive national intel. TEAM PORTABLE COLLECTION SYSTEM - MULTI-PLATFORM CAPABLE (TPCS-MPC) FY 03 SPAWAR, CHARLESTON, S.C. Provide funds for prime systems integrator for TPCS-MPC EDM. NORTHROP GRUMMAN INFORMATION TECHNOLOGY (NGIT), System Engineering Technical Assistance, Stafford VA Provide funds SETA support contract for system engineering and program management. COMPUTER SCIENCE CORP, Dumfries, VA Funds provided for SETA support for Configuration Management (CM). BTG, Dumfries VA Funds provide Contractor Engineering Technical Support (CETS) at RadBn for training support and Independent Validation and Verification (IV&V) at 1st and 2nd RadBn. (U) SCHEDULE PROFILE:		

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003																																													
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME																																													
RDTE, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Systems				C9276 Radar and Ship Maneuver																																													
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Total Program																																								
Project Cost	0.000	7.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	7.027																																								
RDTE Articles Qty																																																		
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: 1. IMPR HIGH PERFORMANCE LONG RANGE: The 3-D Expeditionary long-range radar must provide anti-air warfare units of the aviation combat element with sufficient advanced warning and target information to allow for threat evaluation and responsive action, including air raid warning of targeted forces and neutralization of the threat. The radar must provide air controllers with a precise, true air picture of sufficient quality to conduct close control of individual aircraft under a wide range of environmental and operational conditions. The logistical footprint of the radar system must be reduced as technology permits. Downsizing is the key to improved transportability and reduced setup time. In the case of Theater Missile Defense operations, the radar must have the capability, to disseminate target information to the ADCP, and, to the TAOM/future C2 Node for dissemination to all air defense agencies (Marine Corps and Joint Services) and service-to-air missile firing batteries (Marine Corp and Joint Services) by way of a common digital data link. 2. MARINE CORPS SHIP TO OBJECTIVE MANEUVER: Integrate the existing Marine SINCGARS radios into multi-user local networks; add militarized palmtops/laptops to display situational awareness and targeting data; link the networks to ships and sensors via high bandwidth communication terminals previously developed for Naval air defense, and perform field demonstrations. Enhance communications network capabilities to allow for the dramatic improvement in the way commanders wage war by allowing them to direct battles from on board their command ships. The communication networks link the commanders with their troops enable the implementation of the desired Ship to Objective Maneuver doctrine. (U) B. ACCOMPLISHMENTS/PLANNED PROGRAM: <table border="1"> <thead> <tr> <th>COST (\$ in Millions)</th> <th>FY 2002</th> <th>FY 2003</th> <th>FY 2004</th> <th>FY 2005</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/Effort Subtotal Cost</td> <td></td> <td>2.050</td> <td></td> <td></td> </tr> <tr> <td>RDTE Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> IMPR HIGH PERFORMANCE LONG RANGE : Modernization development. <table border="1"> <thead> <tr> <th>COST (\$ in Millions)</th> <th>FY 2002</th> <th>FY 2003</th> <th>FY 2004</th> <th>FY 2005</th> </tr> </thead> <tbody> <tr> <td>Accomplishment/Effort Subtotal Cost</td> <td></td> <td>4.977</td> <td></td> <td></td> </tr> <tr> <td>RDTE Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> MARINE CORPS SHIP TO OBJECTIVE MANEUVER: Intergrate and networking. <table border="1"> <thead> <tr> <th>(U) Total \$</th> <th>0.000</th> <th>7.027</th> <th>0.000</th> <th>0.000</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	Accomplishment/Effort Subtotal Cost		2.050			RDTE Articles Qty					COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	Accomplishment/Effort Subtotal Cost		4.977			RDTE Articles Qty					(U) Total \$	0.000	7.027	0.000	0.000					
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005																																														
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RDTE Articles Qty																																																		
(U) Total \$	0.000	7.027	0.000	0.000																																														

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EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2003						
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Systems			C9276 Radar and Ship Maneuver						
		FY2002	FY2003	FY2004	FY2005						
(U) Project Change Summary											
(U) FY 2003 President's Budget:		0.000	0.000	0.000	0.000						
(U) Adjustments from the President's Budget:											
(U) Congressional/OSD Program Reductions			-0.173								
(U) Congressional Rescissions											
(U) Congressional Increases			7.200								
(U) Reprogrammings											
(U) SBIR/STTR Transfer											
(U) FY 2004 President's Budget:		0.000	7.027	0.000	0.000						
CHANGE SUMMARY EXPLANATION:											
(U) Funding: Funding in FY03 is from a Congressional Plus Up.											
(U) Schedule: Not Applicable.											
(U) Technical: Not Applicable.											
(U) C. OTHER PROGRAM FUNDING SUMMARY:											
<u>Line Item No. & Name</u>		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
R&D C2273 AN/TPS-59		10.117	5.539	0.562	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
R&D C3099 AN/TPS-59 (ECP's)		0.000	0.000	10.556	22.746	25.793	21.386	4.847	3.818	Continuing	Continuing
PMC BLI 463600 AN/TPS-59		5.179	7.464	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.643
PMC BLI 465100 AN/TPS-59		0.000	0.000	18.211	24.536	7.48	11.951	38.914	50.443	Continuing	Continuing
(U) Related RDT&E: Not Applicable.											
(U) D. ACQUISITION STRATEGY:											
(U) IMPR HIGH PERFORMANCE LONG RANGE: The Acquisition Strategy is based on the recommendations of a Business Case Analysis and two independent modernization studies. The Project Office is pursuing a two phased acquisition approach for the AN/TPS-59(V)3 Radar System. The initial phase focuses on sustaining the radar system by continuing the FY02 efforts to resolve diminishing manufacturing sources issues. The second phase is a modernization effort to provide advanced technology to improve performance capabilities of the radar.											
(U) MARINE CORPS SHIP TO OBJECTIVE: The Acquisition Strategy is based on the requirement to pursue work under this project in conjunction with work ongoing in other projects that will be integrated for operational effectiveness. The project and the provided funds will be executed via existing contracts that are currently using other funds provided in the President's budget for development of other Marine Corps Communications Systems. The project will support inclusion of additional capabilities, 1) provide assurance that the communications network will support Marine Corps doctrine by allowing the battle commanders to communicate with forward elements throughout the assault as they depart the ship, on board amphibious craft, while ashore and during their return; 2) Facilitate networking the available sensor data, to provide a composite battle picture that includes air and ground targets, video, data from unmanned aerial vehicles and field observations; 3) provide assurance that the network is flexible and adaptable to operational requirements. By pursuing this project in conjunction with other projects we will ensure compatibility with existing Navy systems and ensure project systems can be adapted to the other services system.											
(U) E. MAJOR PERFORMERS:											
IMPR HIGH PERFORMANCE LONG RANGE:											
FY03 SEMI-South Corporation, Starkville, MS 31 May 03											
MARINE CORPS SHIP TO OBJECTIVE:											
FY03 SAIC, St. Petersburg, FL 15 Mar 03											
(U) SCHEDULE PROFILE:											