

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev			PROGRAM ELEMENT (PE) NAME AND NO. 0206313M Marine Corps Communications Sys						
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost	96.438	119.716	174.664	163.920	96.349	90.363	74.779	Cont	Cont
C2270 Command Post Systems	21.500	24.755	29.594	22.510	19.554	18.638	18.651	Cont	Cont
C2271 Maneuver C2 Systems	1.647	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.647
C2272 Intelligence C2 Systems	6.483	18.286	19.900	16.424	19.097	17.444	9.822	Cont	Cont
C2273 Air Operations C2 Systems	24.261	24.074	63.320	65.786	18.464	21.219	18.398	Cont	Cont
C2274 Warfare Systems	7.077	9.147	5.732	4.209	5.076	5.636	5.025	Cont	Cont
C2275 Radio Systems	0.000	0.000	0.597	1.393	1.787	0.991	0.990	Cont	Cont
C2276 Communications Switching & Control Systems	0.186	0.969	4.766	0.602	0.603	0.603	0.604	0.000	8.333
C2277 System Engineering & Integration	10.084	13.244	9.912	11.810	11.011	12.619	11.857	Cont	Cont
C2278 Air Defense Weapons Systems	13.633	11.135	29.831	36.146	16.968	10.980	7.178	Cont	Cont
C2315 Training Devices/Simulators	10.496	13.548	6.145	4.464	3.208	1.642	1.652	Cont	Cont
C2510 MAGTF CSSE & SE	1.071	4.558	4.867	0.576	0.581	0.591	0.602	Cont	Cont
Quantity of RDT&E Articles									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>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 six functional areas and one supporting functional area as follows: maneuver C2, intelligence C2, fire support C2, air operations C2, radio systems C2, combat service support C2, warfare C2, and C2 support (information processing and communications).</p> <p>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. The Coastal Battlefield Reconnaissance and Analysis (COBRA) system is a passive multi-spectral sensor system capable of operating in a PIONEER 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.</p>									

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT (PE) NAME AND NO. 0206313M Marine Corps Communications Sys
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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

	FY2001	FY2002	FY2003
(U) FY 2002 President's Budget:	107.102	104.835	
(U) Adjustments from the President's Budget:			
(U) SBIR/STTR Transfer	-1.991		
(U) Execution Adjustment	-0.852		
(U) Minor Affordability Adjustment		-1.119	
(U) Program Adjustment	-7.821	16.000	
(U) FY 2003 President's Budget:	96.438	119.716	174.664

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 2002			
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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost		21.500	24.755	29.594	22.510	19.554	18.638	18.651	Cont	Cont
Continuing War on Terrorism (Non-Additive)				2.5*	.1*	.1*	.4*	.5*		
RDT&E Articles Qty										
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
<p>(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 the 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). They also disseminate maneuver information throughout the battlespace.</p> <ol style="list-style-type: none"> 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. 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. 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. Advanced Field Artillery Tactical Data Systems (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. The Expeditionary Integrated Combat Operations Center (EICOC)/Unit Operations Center (UOC) project develops and transitions two Command and Control Imperative ATDs (the Expeditionary Integrated Combat Operations Center (EICOC) and the Joint Tactical Communications ((JT COMMs) ATDs) into various Marine Corps and Joint Engineering and Manufacturing Development (E&MD) efforts. EICOC 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. EICOC developments are tailored to support transition of software and hardware developments as PIPs to the established MAGTF C4I baseline. EICOC is the interim name for the Unit Ops Center (UOC). The UOC name will replace the EICOC name starting with FY00. Unit Operations Center (UOC) will provide a facility and components for the integration of current and planned battlefield automation systems. <p>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).</p>										

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems			
<p>6. TCAC PIP is a Product Improvement Plan (PIP) based on the MEF IAS program. TCAC PIP is a semi-automated signals intelligence (SIGINT) processing, analysis and reporting system integrated in to one HMMWV mounted standard tactical shelter housing essential computer and communication resources. Internal and external workstations, when connected via a local area network, will extend functional capabilities to multiple users. The system is modular in design allowing stand-alone operations support during high mobility or contingency operations. Essential voice and data communications and SIGINT processing capabilities will support and automate the management and dissemination of SIGINT-derived intelligence reports. (\$2,500K) Technical Control and Analysis Center (TCAC) provides OEF Marines with a backbone, automated SIGINT system that fuses input from organic Radio Battalion SIGINT assets. Conduct integration, testing, and assessment of prototypes.</p> <p>7. GCCS-13 (Global Command and Control System Integrated Imagery and Intelligence) comprises a core system infrastructure to access and store imagery and intelligence data on local database servers. The baseline segments are developed to comply with the Defense Information Infrastructure (DII) Common Operating Environment (COE). The core of this system is mandated by DoD and is paid via a tax levied on all services.</p> <p>8. 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 software upgrades and enhancements that allow interoperability with other C4I systems. The DACT program's FY00 and FY01 efforts are being procured out of project C2271 of the PE.</p> <p>9. 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.</p> <p>10. The JECCS will facilitate command and control capabilities by providing "first in" backbone connectivity to Defense Information Systems Network (DISN) services in support of the JTFE mission. JECCS is designed to augment the current and planned communications architecture and to provide seamless transition to Digital Technical Control/Tactical Digital Network (DTC/TDN) in support of follow on forces. The system's capabilities and functions include Non-Secure Internet Protocol Router Network (NIPRNET), Secure IP Router Network</p> <p>11. Single Integrated Air Picture (SIAP) is the product of fused, common, continual, coherent, unambiguous tracks of airborne objects of interest within the surveillance area.</p>					
Continuing War on Terrorism	FY03	FY04	FY05	FY06	FY07
TCAC	2.5	0.1	0.1	0.4	0.5
PROGRAM ACCOMPLISHMENTS AND PLANS					
FY 2001 Accomplishments					
• (U) \$	0.326	TCO: Developed and tested new equipment for refresh.			
• (U) \$	0.100	TCO: Developed and integrated common system software.			
• (U) \$	0.100	TCO: Begun program management and engineering support.			
• (U) \$	0.000	TCO: Incorporated Phase V ORD requirements, completed PHASE IV ORD requirements and integrated software changes into existing system. This effort forward financed with FY00 funding in the amount of \$312K.			
• (U) \$	0.147	IAS MOD: Begun integration lab support.			
• (U) \$	0.167	IAS MOD: Continued Intel Fusion software improvements.			
• (U) \$	0.136	IAS MOD: Begun interoperability assessment for IAS Systems.			
• (U) \$	0.000	IAS MOD: Continued C2PC Intel software development. This effort was forward financed with \$156 of FY00 funding.			
• (U) \$	1.360	MAGTF C4I BASELINE: Completed all trade studies, market surveys and functional assessments.			
• (U) \$	1.740	MAGTF C4I BASELINE: Continued designing and building DII COE compliant prototypes.			
• (U) \$	1.200	MAGTF C4I BASELINE: Conducted an Early Operational Assessment of a multi-echelon environment of all prototypes.			
• (U) \$	1.261	MAGTF C4I BASELINE: Continued disciplined risk management, requirements tracking and system engineering and analysis efforts.			
• (U) \$	0.100	MAGTF C4I BASELINE: Begun program management support.			

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems
<ul style="list-style-type: none"> • (U) \$ 0.000 MAGTF C4I BASELINE: Continued disciplined risk management, requirements tracking and system engineering and analysis efforts for the DII/COE compliant prototype. This effort forward financed with \$1,795 of FY00 funding. • (U) \$ 1.468 AFATDS: Began research of new hardware platform for potential procurement starting in FY03. • (U) \$ 0.000 AFATDS: Began and completed development efforts on AFATDS 99 Software. Migrate to DII COE. Add additional fire support functionality to support Marine Corps fire support systems. Begin training of test beds users (designated Marine Units) for release of AFATDS 99 Software. Develop interoperability with MAGTF C4I system (IOW, DACT, TLDHS, and TCO). This effort forward financed with \$543K of FY00 funding. • (U) \$ 7.211 UOC: Continued modeling and simulation, COTS/GOTS hardware and software system engineering, analysis and prototyping. • (U) \$ 1.535 UOC: Conducted an Early Operational Assessment of the prototypes. • (U) \$ 2.663 UOC: Continued Program Management Support. • (U) \$ 1.986 JECC: Produced a Low Rate Initial Production (LRIP) unit that incorporates modifications recommended for the Engineering Development Models (EDMs). 		
(U) Total \$	21.500	
FY 2002 Planned Program		
<ul style="list-style-type: none"> • (U) \$ 0.430 TCO: Develop and test new Client Software. • (U) \$ 0.170 TCO: Incorporate software changes and test new releases into existing systems. • (U) \$ 0.450 TCO: Test Client workstations for refresh of existing hardware. • (U) \$ 0.166 TCO: Program management and engineering support. • (U) \$ 1.009 IAS MOD: Begin critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. • (U) \$ 0.300 IAS MOD: Continue Intel Fusion software improvements. • (U) \$ 0.100 IAS MOD: Continue support of integration facility. • (U) \$ 0.079 IAS MOD: Continue interoperabilty assessment. • (U) \$ 2.062 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. • (U) \$ 0.550 MAGTF C4I BASELINE: Continue Program Management Support. • (U) \$ 0.350 MAGTF C4I BASELINE: Continue disciplined risk management, requirements tracking and systems engineering and analysis efforts. • (U) \$ 1.050 MAGTF C4I BASELINE: Implementation of completed Functional Assessment, Trade Study and Market Survey identified requirements in support of MOC • (U) \$ 2.000 MAGTF C4I BASELINE: Development of WIN NT for USMC AFATDS and GCCS-M client solutions to provide increased functionality and interoperability to Fire Support, Maneuver and Intel clients. • (U) \$ 0.300 MAGTF C4I BASELINE: Development and implementation of system education curricula including Computer Based Training, Distance Learning and embedded scenarios to increase operator proficiency. • (U) \$ 0.250 MAGTF C4I BASELINE: Begin configuration management. • (U) \$ 1.002 AFATDS: Complete final development and enhancement of AFATDS V7 software. Develop increased interoperability with all other MAGTF C4I automated systems. Increase software effectiveness with, and in support of Marine Corps fire support systems. • (U) \$ 0.804 AFATDS: Initiate development of AFATDS V8 software. Begin porting software to Windows NT environment. Simplify human factors interface to allow easier initial and sustainment training. 		

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems
<ul style="list-style-type: none"> • (U) \$ 0.417 AFATDS: Continue research of new hardware platform for system. Investigate the potential of moving to AFATDS server and Fire Support Client architecture for potential procurement in FY03. • (U) \$ 1.590 GCCS-I3: Begin operational system development. • (U) \$ 9.926 UOC: Engineering and manufacturing development effort including design of production representative modules. • (U) \$ 0.513 DACT: Continue development of Application Software enhancements for Vehicle and Foot Mobile DACTs. • (U) \$ 0.390 DACT: Continue system interface/interoperability with fielded systems receiving PDSS and new systems • (U) \$ 0.147 DACT: Continue development of Computer Based Training enhancements for both Vehicle and Foot Mobile DACTs. • (U) \$ 0.137 DACT: Continue Program Management Support. • (U) \$ 0.207 DACT: Conduct IOT&E for Foot Mobile DACT. • (U) \$ 0.356 MCDMT: Marine Corp Database Management Tool (MCDMT), formally known as MCTEEP, at the request of the Functional Sponsor, HQMC, PP&O. Efforts including: 1.) Database Evaluation and Conversion, 2.) System Architecture Evaluation for Optimal System Performance, 3.) creation of Situation Report (SITREP) and Operational Summary (OpSum) Templates for enhanced Data Entry and 4.) Implementation in MCDMT of Common Marine Corps Data Elements " 		
(U) Total \$	24.755	
(U) FY 2003 Planned Program:		
<ul style="list-style-type: none"> • (U) \$ 0.340 TCO: Server testing and integration to develop additional functional capabilities. • (U) \$ 0.160 TCO: Integrate software changes into new system and perform testing. • (U) \$ 0.414 TCO: Testing and validations of advanced concepts and technologies. • (U) \$ 0.150 TCO: Program management and engineering support. • (U) \$ 0.495 IAS MOD: Continue critical improvements to GCCS-I3 Intelligence Support software for USMC requirements. • (U) \$ 0.300 IAS MOD: Continue to refine Intel Fusion software. • (U) \$ 0.100 IAS MOD: Continue support of integration facility. • (U) \$ 0.117 IAS MOD: Begin software modifications to support USMC joint interoperability. • (U) \$ 1.903 MAGTF C4I BASELINE: Continue to 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. • (U) \$ 0.465 MAGTF C4I BASELINE: Continue Program Management Support. • (U) \$ 0.300 MAGTF C4I BASELINE: Continue disciplined risk management, requirements tracking and systems engineering and analysis efforts. • (U) \$ 0.800 MAGTF C4I BASELINE: Continue implementation of completed Functional Assessment, Trade Study and Market Survey identified requirements in support of MOC requirements. • (U) \$ 1.994 MAGTF C4I BASELINE: Continue development of WIN NT for USMC AFATDS and GCCS-M client solutions to provide increased functionality and interoperability to existing clients as well as the addition of Logistics and communication to the baseline. • (U) \$ 0.225 MAGTF C4I BASELINE: Continue development and implementation of system education curricula including Computer Based Training to increase operator proficiency. 		

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems
• (U) \$	0.200	MAGTF C4I BASELINE: Continue configuration management.
• (U) \$	1.167	AFATDS: Complete development effort of AFATDS V8 software. 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.
• (U) \$	0.710	AFATDS: Continue research and selection of new hardware platform for system. Continue investigation and development of fire support client – server architecture.
• (U) \$	1.612	GCCS-I3: Continue operational system development.
• (U) \$	2.414	UOC: Continue engineering and manufacturing development effort including design of production representative modules.
• (U) \$	0.405	DACT: Continue development of Application Software enhancements for Vehicle and Foot Mobile DACTs.
• (U) \$	0.250	DACT: Continue system interface/interoperability with systems receiving PDSS and new fielded systems.
• (U) \$	0.082	DACT: Continue development of Computer Based Training enhancements for Vehicle and Foot Mobile DACTs.
• (U) \$	0.152	DACT: Continue Program Management Support.
• (U) \$	0.212	DACT: Conduct FOT&E for Foot Mobile DACT.
• (U) \$	2.860	DACT INTEGRATION: Begin the development, integration, testing and fielding of the Tank and DACT Vehicle Mount.
• (U) \$	0.367	MCTEEP: Continue the development, integration, testing and fielding of selected MCTEEP Software upgrades to enhance the capabilities of MCTEEP. The prospective S/W modifications include; 1) incremental upgrades to accomplish progressively 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, 4) migration of MCTEEP to the MAGTF Software Baseline (MSBL), and implementation of MCTEEP as an available Unit Operations Center (UOC) function / application.
	2.400	SIAPS: Implement JROC approved Block 0 changes in the TAOM.
	9.000	SIAPS: Service System Engineering support to SIAP SE TF.
(U)Total \$	29.594	

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RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communications Sys	C2270 Command Post Systems							
PROJECT CHANGE SUMMARY	FY2001	FY2002	FY 2003						
FY 2002 PRESIDENT'S BUDGET	24.480	24.976							
(U) Adjustments from the President's Budget:									
(U) SBIR/STTR Transfer	-0.462								
(U) Execution Adjustment									
(U) Minor Affordability Adjustment		-0.221							
(U) Program Adjustment	-2.518								
(U) FY 2003 President's Budget:	21.500	24.755	29.594						
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See Above.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) B. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl		Total Cost
(U) PMC BLI# 463100 TCO	7434	0	0	0	0	0	0	0	7434
(U) PMC BLI# 474900 IAS MOD	1468	1610	1328	1350	1358	1379	1402	Continuing	Continuing
(U) PMC BLI# 463100 AFATDS	3050	2158	0	479	2365	6201	5465	0	19718
(U) PMC BLI# 463100 UOC	0	0	23108	29873	36860	42290	42160	Continuing	Continuing
(U) PMC, BLI #463100, DACT	0	9521	6430	4280	0	0	0	0	20231
(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) (Defense									
(U) Navy Tactical Flag Communication and Control System.									

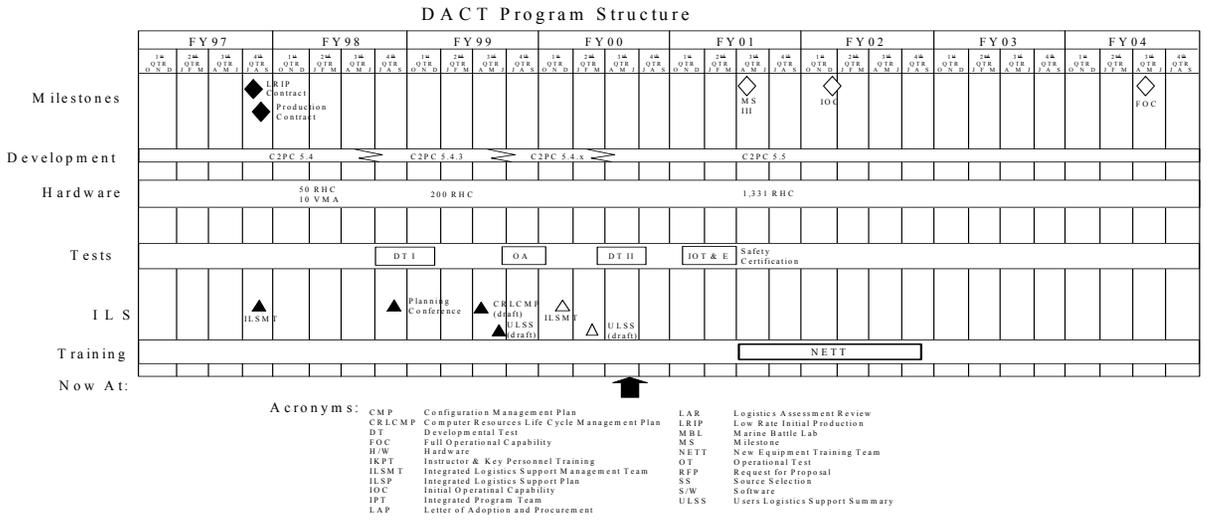
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<p>(U) C. ACQUISITION STRATEGY: TCO - Tactical Combat Operations: Contracting is via General Services Administration schedules with various vendors and is for software maintenance and COTS evaluation and integration. Performance base reviews are conducted quarterly by the PMO.</p> <p>(U) C. ACQUISITION STRATEGY: MCBL funds applied to the INRI contract through ITM2K are on a Time and Materials Contract. Funds to Logicon, Orlando, Florida for the SPEED contract are on a Firm Fixed Price Contract. Funds to SPAWAR Systems Center, Charelston are through a Navy Working Capital Fund. Funds to Raytheon are through the AFATDS Time and Materials contract. Funds to Logicon, Dumfries are on a Time and Materials contract.</p> <p>(U) C. ACQUISITION STRATEGY: 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.</p> <p>(U) C. ACQUISITION STRATEGY: 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 (A99 and V7).</p> <p>(U) C. ACQUISITION STRATEGY: UOC - The UOC COC will be a Competitively Awarded Contract for design (cost type) and FFP production options.</p> <p>(U) C. 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.</p> <p>(U) C. ACQUISITION STRATEGY: GCCS: The acquisition of components (software/hardware) for the GCCS I 3 initiative will maximize the use of existing COTS, GOTS, NDI, and GFE equipment. The GCCS I 3 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.</p>		

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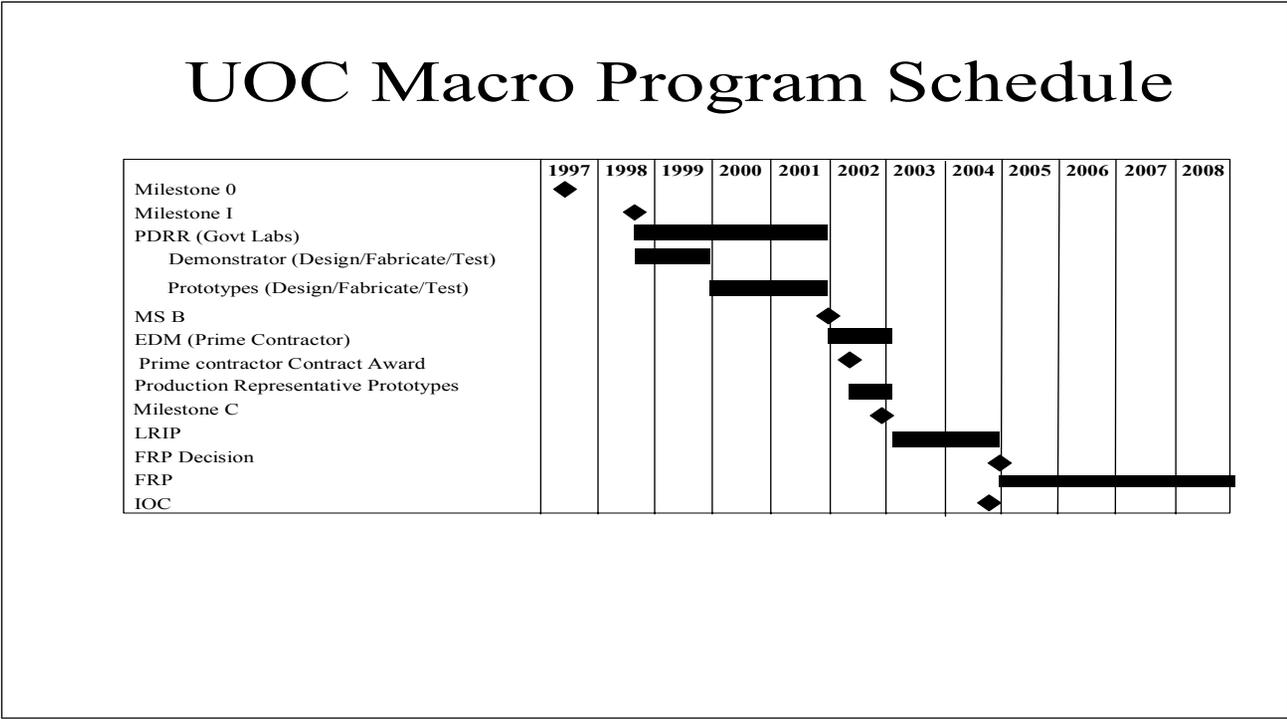
(U) D. SCHEDULE PROFILE:



Program Funding Summary	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	1.299	0	0	0	0	0	0	0	1.299
(U) RDT&E,N	0	1.394	3.961	1.37	1.501	1.078	0.886	Continuing	Continuing
(U) PMC, BLI#463100, DACT	0	9.521	6.43	4.28	0	0	0	0	20.231

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<u>Program Funding Summary</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007 To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>								
(U) RDT&E,N	11.409	9.926	2.414	9.562	6.600	6.600	6.600	0.000 53.111
(U) PMC BLI# 463100 UOC	0	0	23.108	29.873	36.86	42.29	42.16	Continuing Continuing

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CLASSIFICATION:		EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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	

S I A P S u p p o r t S t r u c t u r e

Material Solution	FY	2003			2004			2005			2006			2007			2008			
		1 st Q tr	2 nd Q tr	3 rd Q tr	1 st Q tr	2 nd Q tr	3 rd Q tr	1 st Q tr	2 nd Q tr	3 rd Q tr	1 st Q tr	2 nd Q tr	3 rd Q tr	1 st Q tr	2 nd Q tr	3 rd Q tr	1 st Q tr	2 nd Q tr	3 rd Q tr	
Block 0 Imp (TAOM)		↔																		
S I A P S E Service Support		↔																		

<u>Program Funding Summary</u> <u>(APPN, BLI #, NOMEN)</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007 To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	0.000	0.000	11.4	0.000	0.000	0.000	0.000	0.000
(U) PMC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing

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CLASSIFICATION:

Exhibit R-3 Cost Analysis						DATE: February 2002						
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 (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												0.000
Ancillary Hardware Development												0.000
Systems Engineering												0.000
Licenses												0.000
Tooling												0.000
GFE												0.000
Award Fees												0.000
UOC	WR	SSC, Charleston, SC	2.865	2.410	10/01	6.622	02/02	2.414	12/02	Continuing	Continuing	
UOC	RCP	MCCDC, Quantico, VA	0.952	0.000		0.000				0.000	0.952	
UOC	WR	CECOM, Ft. Monmouth,NJ	0.650	0.000		0.000				0.000	0.650	
UOC	RCP	AMCOM, Huntsville, AL	1.120	3.859	06/01	1.070	02/02			Continuing	Continuing	
UOC	RCP	NRL, Washington, DC	5.280	3.961	06/01	0.784	02/02			Continuing	Continuing	
TCO	RCP	MCTSSA, Camp Pndlt,CA	0.584							0.000	0.584	0.584
TCO	RCP	NWSC, Crane In				0.430	02/02			0.000	0.430	
TCO	RCP	MCSC, Quantico, VA				0.450	02/02			0.000	0.450	
TCO	WR	SPAWAR, Charleston, SC	0.844	0.426	03/01			1.064	12/02	1.921	4.255	
IAS MOD	RCP	NSWC, Crane In	0.484							0.000	0.484	
IAS MOD	TBD	SPAWAR, San Diego, CA				1.009	02/02	0.912	12/02	Continuing	Continuing	
IAS MOD	WR	MCTSSA, Camp Pndlt,CA	0.254							0.000	0.254	
MAGTF C4I BASELINE	RCP	SSC, Charleston, SC	7.108	4.148	11/00	2.062	02/02	1.903	12/02	Continuing	Continuing	
MAGTF C4I BASELINE	WR	SSC, Charleston, SC				0.350	02/02	0.300	12/02	Continuing	Continuing	
MAGTF C4I BASELINE	RCP	Raytheon, Indianapolis, IN				1.050	02/02	0.800	12/02	Continuing	Continuing	
MAGTF C4I BASELINE	TBD	INRI, San Diego, CA				2.000	02/02	1.994	12/02	Continuing	Continuing	
MAGTF C4I BASELINE	TBD	OSEC, Stafford, VA				0.300	02/02	0.225	12/02	Continuing	Continuing	
MAGTF C4I BASELINE	TBD	SSC, Charleston, SC				0.250	02/02	0.200	12/02	Continuing	Continuing	
AFATDS	MIPR	USA, Ft. Sill, OK	1.482	0.080	11/00	0.090	02/02	0.175	12/02	Continuing	Continuing	
AFATDS	C/FFP	Logicon, Stafford, VA	0.718	0.500	10/00	0.640	02/02	0.680	12/02	Continuing	Continuing	
AFATDS	CPFF/MIP	USA, CECOM	0.882	0.563	01/01	1.123	02/02	0.652	12/02	Continuing	Continuing	
AFATDS	WR	MCSC, Quantico, VA				0.020	02/02	0.020	12/02	Continuing	Continuing	
AFATDS	CPFF/MIP	CECOM, Ft. Monmouth,NJ	0.350	0.325	01/01	0.350	02/02	0.350	12/02	Continuing	Continuing	
TCAC-PIP	TBD	BTG, Fairfax, VA	0.807							Continuing	Continuing	
GCCS-13	TBD	TBD				1.590	02/02	1.612	12/02	Continuing	Continuing	
DACT	TM	Raytheon, Indianapolis, IN	2.151			0.160	02/02			Continuing	Continuing	
DACT	FFP	EPS, Ft. Monmouth, NJ	0.080			0.030	02/02			Continuing	Continuing	

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Exhibit R-3 Cost Analysis						DATE: February 2002						
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 (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
DACT	TM	INRI, San Diego, CA	0.611			0.627	02/02	0.655	12/02	Continuing	Continuing	
DACT	GSA	OSEC, Stafford, VA	0.275			0.110	02/02	0.082	12/02	Continuing	Continuing	
DACT	CFFP	Logicon, Stafford, VA	0.145			0.123	02/02			Continuing	Continuing	
DACT INTEGRATION	TBD	TBD								Continuing	Continuing	
MCTEEP	C/CPFF	TBD				0.356	02/02	0.367	12/02	Continuing	Continuing	
JECCS	FFP	TBD	4.000	1.600	10/01					Continuing	Continuing	
SBIR												
Subtotal Product Development			31.642	17.872		21.596		14.405		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support Equipment												0.000
Software Development												0.000
Training Development												0.000
Integrated Logistics Support												0.000
Configuration Management												0.000
Technical Data												0.000
UOC	RCP	LOGICON, Stafford, VA	0.730	0.939	10/00	1.200	02/02			Continuing	Continuing	
UOC	RCP	HQMC, Washington, DC	0.584	0.240	11/00	0.250	02/02			Continuing	Continuing	
TCO	RCP	MCTSSA, Camp Pndltn, CA	0.527	0.100	01/01	0.166	02/02			Continuing	Continuing	
IAS Mod	C/FFP	LOGICON, Stafford, VA	0.818							0.000	0.818	0.818
MSBL	C/PFF	LOGICON, Stafford, VA	0.100	0.100	10/00	0.300	02/02	0.250	12/02	Continuing	Continuing	
MSBL	TBD	Visicom, Dumfries, VA				0.250	02/02	0.215	12/02	Continuing	Continuing	
DACT	CFFP	LOGICON, Stafford, VA	0.211			0.093	02/02	0.100	12/02	Continuing	Continuing	
DACT	GSA	OSEC Stafford, VA	0.155			0.044	02/02	0.052	12/02	Continuing	Continuing	
JECCS	CPFF	LOGICON, Stafford, VA		0.186	02/02					Continuing	Continuing	
DACT INTEGRATION	TBD	TBD						2.356	12/02	Continuing	Continuing	
SIAP	RCP	CECOM, FT. MONMOUTH, NJ						1.200	02/03			
SIAP	RCP	MCSC, QUANTICO, VA						6.100	02/03			
SIAP	RCP	GSA, BREMERTON, WA						1.700	02/03			
SIAP	RCP	MCSC, QUANTICO, VA						2.400	02/03			
Subtotal Support			3.125	1.565		2.303		14.373				
Remarks:												

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Exhibit R-3 Cost Analysis						DATE: February 2002						
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 (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												0.000
Operational Test & Evaluation												0.000
Tooling												0.000
GFE												0.000
TCO	RCP	MCTSSA, Camp Pndltn, CA	0.201			0.170	02/02			Continuing	Continuing	
IAS Mod	WR	SPAWAR, Charleston SC	0.160							0.000	0.160	
IAS Mod	RCP	NMAC	0.206	0.167		0.300	03/02			0.300	0.160	
IAS Mod	WR	MCSC, Quantico, VA		0.147	10/00	0.100	02/02	0.100	12/02	0.100	0.347	
IAS Mod	WR	NSWC, Crane IN		0.136	10/00	0.079	02/02			0.449	0.664	
MSBL	RCP	MCOTEA, Quantico, VA	0.270	1.413	11/00					Continuing	Continuing	
DACT	WR	MCOTEA, Quantico, VA	0.075			0.207	02/02	0.212	12/02	Continuing	Continuing	
JECCS		MCOTEA, Quantico, VA		0.200	02/02					0.000	0.200	
DACT INTEGRATION	TBD	TBD						0.504	12/02	Continuing	Continuing	
											0.000	
Subtotal T&E			0.912	2.063		0.856		0.816		Continuing	Continuing	
Remarks:												
Contractor Engineering Support												0.000
Government Engineering Support												0.000
Program Management Support												0.000
Travel												0.000
Labor (Research Personnel)												0.000
Overhead												0.000
Subtotal Management			0.000	0.000		0.000				0.000	0.000	
Remarks:												
Total Cost				21.500		24.755		29.594		Continuing	Continuing	

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Sys				PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems				
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	6.483	18.286	19.900	16.424	19.097	17.444	9.822	Cont	Cont
Continuing War on Terrorism (Non-Additive)			6.6*	4.6*	4.3*	4.3*	10.9*		
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.

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 Geographic Information System, which employs commercial computer and software to provide the framework data for the common battlefield visualization by producing both hardcopy and digital geographic intelligence.
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 PIONEER 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 process tactical imagery in support of the MAGTF commander. The system is an integral component of the Joint Service Imagery Processing System (JSIPS), complementing the capabilities of the JSIPS National Input Segment (NIS) located at Camp Pendleton. The system will provide the capability to receive, process, store, exploit, and disseminate Advanced Tactical Air Reconnaissance System (ATARS) electro-optical, infrared, and synthetic aperture radar imagery from the F/A-18D (RC) and receive national secondary imagery from the NIS.
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 - 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 2002				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Sys	C2272 Intelligence C2 Systems					
<p>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 more costly hard to get weapons systems at a moments notice. The sensor systems also remove the requirement to employ Marines behind enemy lines for extreme periods of time.</p>			FY03	FY04	FY05	FY06	FY07
Continuing War on Terrorism							
(\$300K) Manpacked Secondary Imagery Dissemination System (MANPACK SIDS) provides imagery capture and transmission capability to reconnaissance units. Conduct integration, testing, and assessment of prototypes.			0.3	0.3	0.3	0.3	0.3
(\$2,500K) I-SURSS/SURSS procures additional aircraft and ground control stations for fielding to a wider range of units such as Light Armor Reconnaissance battalions, Surveillance Target Acquisition platoons, and Intelligence battalion. Conduct integration, testing, and assessment of prototypes.			2.5	1.5	1.0	1.0	1.0
			1.5	1.5	1.7	1.7	8.3
(1,500K) Tactical Exploitation of National Capabilities (TENCAP) -- Provides research and development efforts focused on improving use of national intelligence by tactical forces. Contract services to accelerate integration of Commercial Off The Shelf (COTS) hardware/software with national level intelligence information services and capabilities.							
			1.0	0.0	0.0	0.0	0.0
(\$1,000K) Tactical Exploitation Group (TEG) Provides Marines operating in OEF with finished imagery intelligence products for dissemination and fusion with other intelligence information. Conduct integration, testing, and assessment of prototypes.							
(\$1,200K) Intelligence Surveillance and Reconnaissance (ISR) ensures that OEF Marines have sufficient spares and parts for Intelligence systems that are subject to demanding environmental conditions; it additionally ensures that software updates are developed and fielded expeditiously. Conduct integration, testing, and assessment of prototypes.			1.2	1.2	1.2	1.2	1.2
(\$100K) TACPHOTO - Accelerates procurement and fielding of cameras to Operating Forces. Conduct integration, testing, and assessment of prototypes.			0.1	0.1	0.1	0.1	0.1

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Sys	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
PROGRAM ACCOMPLISHMENTS AND PLANS		
FY 2001 Accomplishments		
• (U) \$	0.133 TPC: Contractor support for Mods.	
• (U) \$	0.184 TPC: Performed mods from OT&E	
• (U) \$	1.816 TENCAP: Continued program support and management, evaluated national intelligence data systems for MAGTF applicability.	
• (U) \$	0.420 TENCAP: Continued technical assessments of emerging national data dissemination capabilities.	
• (U) \$	0.290 TENCAP: Continued to support operational planning to enhance operating force capabilities to US national intelligence data within the MAGTF C4I architecture.	
• (U) \$	0.175 TENCAP: Continued TENCAP training and education efforts by providing the Fleet Marine Force with various TENCAP simulation, scripting, and processing hardware and software support.	
• (U) \$	0.485 COBRA: Continued MarCorSysCom program support activities.	
• (U) \$	0.450 COBRA: Coastal systems station program engineering support.	
• (U) \$	0.450 COBRA: Continued ATD risk reduction verification. E&MD design.	
• (U) \$	0.500 COBRA: Engineering and Manufacturing Development (E&MD) now called System Design and Demonstration (SDD).	
• (U) \$	0.359 JSTARS: Continued engineering and technical support for development and integration of connectivity software that would reside on existing MAGTF systems and utilize JSTARS data.	
• (U) \$	1.221 JSIPS-TEG: Continued engineering and technical support for development and integration of connectivity software that would reside on existing MAGTF systems and utilize JSTARS data.	
(U) Total \$	6.483	
FY 2002 Planned Program		
• (U) \$	0.147 TPC: Continue Contractor support for Mods	
• (U) \$	0.190 TPC: Continue to perform Mods OT&E	
• (U) \$	0.110 CIHEP: Engineering, Integration and Technical support for technical refresh and update of program hardware/software upgrades.	
• (U) \$	2.025 TENCAP: Continue program support and management, evaluate national intelligence data systems for MAGTF applicability.	
• (U) \$	0.455 TENCAP: Continue technical assessments of emerging national data dissemination capabilities.	
• (U) \$	0.458 TENCAP: Continue training and education efforts by providing the Fleet Marine Force with TENCAP simulation, visualization, and data receipt and dissemination capabilities.	
• (U) \$	0.489 JSTARS: Continue engineering and technical support for development and integration of connectivity software what would reside on existing MAGTF systems and utilize JSTARS data.	
• (U) \$	0.250 JSTARS: Contractor advisory and assistance services.	
• (U) \$	0.142 JSTARS: Naval JSTARS interface OT&E.	
• (U) \$	0.185 JSTARS: Joint Services Work Stations (JSWS) Field User Evaluation (FUE).	
• (U) \$	2.486 COBRA: Continue Engineering and Manufacturing Development (E&MD) now called (SDD).	
• (U) \$	0.436 COBRA: Continue MARCORSYSCOM program support activities.	
• (U) \$	0.650 COBRA: NAVSEA Coastal Systems Station Program Tech Support	

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		February 2002
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Sys	C2272 Intelligence C2 Systems
<ul style="list-style-type: none"> • (U) \$ 1.000 JSIPS-TEG: Develop Full Operational Capability; implement factory system for integration of required software/hardware upgrades. • (U) \$ 0.432 JSIPS-TEG: Begin Engineer and technical management support. • (U) \$ 0.360 JSIPS-TEG: Begin technical assessment of SIEC capability in support of the TEG-PIP initiative. • (U) \$ 1.953 TPCS-MPC: Begin EMD Design. • (U) \$ 1.239 TPCS-MPC: Begin System development. • (U) \$ 0.889 TPCS-MPC: Begin Testing and evaluation. • (U) \$ 0.427 TPCS-MPC: Begin Program support and management. • (U) \$ 0.562 TPCS-MPC: Begin Contractor advisory assistance service. • (U) \$ 3.401 TRSS-PIP: Begin Development of Unattended Ground Miniaturized Sensors (UGMS) for TRSS-PIP. 		
(U) Total \$	18.286	
FY2003 PLANNED PROGRAM		
<ul style="list-style-type: none"> • (U) \$ 0.150 TPC: Continue Contractor support for Mods. • (U) \$ 0.199 TPC: Continue to perform Mods OT&E. • (U) \$ 0.113 CIHEP: Engineering and technical support for technical refresh and update of program hardware/software upgrades. • (U) \$ 2.275 TENCAP: Continue program support and management, evaluate national intelligence data systems for MAGTF applicability. • (U) \$ 0.400 TENCAP: Continue technical assessments of emerging national data dissemination capabilities. • (U) \$ 0.100 TENCAP: Continue to support operational planning to enhance operating force capabilities to US national intelligence data within the MAGTF C4I architecture. • (U) \$ 0.267 TENCAP: Continue to evaluate the utility of emerging exploitation, automated and manual target recognition and detection tools. • (U) \$ 0.300 JSTARS: Engineer and technical management support. • (U) \$ 0.485 JSTARS: Development of GCCS-M JSTARS interface segments. • (U) \$ 4.973 COBRA: Continue Engineering & Manufacturing Development (E&MD) now called (SDD). • (U) \$ 0.384 COBRA: Continue MARCORSYSCOM program support activities. • (U) \$ 0.658 COBRA: Continue NAVSEA CSS program tech support. • (U) \$ 0.485 JSIPS-TEG: Continue engineer and technical management support. • (U) \$ 1.465 JSIPS-TEG: Begin technical assessments of emerging national data dissemination capabilities into the JSIPS-TEG. • (U) \$ 0.364 JSIPS-TEG: Continue technical assessment of SIEC capability in support of TEG-PIP initiative. • (U) \$ 0.300 TPCS-MPC: Continue EDM design. • (U) \$ 0.425 TPCS-MPC: Continue system development. • (U) \$ 1.039 TPCS-MPC: Continue test and evaluation. • (U) \$ 0.514 TPCS-MPC: Continue program support and management. • (U) \$ 0.657 TPCS-MPC: Continue contract advisory assistance services. • (U) \$ 2.347 TRSS-PIP: Continue development of Unattended Ground Miniaturized Sensors (UGMS) for TRSS-PIP. • (U) \$ 1.500 TRSS-PIP: Begin Air Certification of Fixed Wing Delivered Sensor (AAD). • (U) \$ 0.500 TRSS-PIP: Begin Software Development of AADS and UGMS Monitoring System. 		
(U) Total \$	19.900	

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME						
RDT&E, N /BA-7 Operational Sys Dev	0206313M Marine Corps Communication Sys			C2272 Intelligence C2 Systems						
(U) PROJECT CHANGE SUMMARY:										
	FY2001	FY2002	FY2003							
(U) FY 2002 President's Budget:	8.555	18.449								
(U) Adjustments from the President's Budget:										
(U) SBIR/STTR Transfer										
(U) Execution Adjustment	-0.134									
(U) Minor Affordability Adjustment		-0.163								
(U) Program Adjustment	-1.938									
(U) FY 2003 President's Budget:	6.483	18.286	19.900							
CHANGE SUMMARY EXPLANATION:										
(U) Funding: See Above.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) B. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007 To Compl</u>	<u>Total Cost</u>		
PMC BLI 474700 Intell Supt Equip TPC	7.046	4.611	3.942	3.586	0.574	0.000	0.000	0	19.759	
PMC BLI 474900 Mod Kits Intell JSTARS	0.000	1.723	0.265	3.461	5.853	4.969	0.085	Continuing	Continuing	
PMC BLI 474700 Intell Support Equip CIHEP	0.000	0.000	1.806	1.394	1.493	1.588	1.686	Continuing	Continuing	
PMC BLI 474700 Intell Support Equip COBRA	0.000	0.000	0.000	0.000	0.000	3.911	0.287	Continuing	Continuing	
PMC BLI 474700 Intell Support Equip JSIPS	0.950	4.559	2.953	2.912	0.619	0.000	0.000	0	11.993	
PMC BLI 474700 Intell Support Equip TPCS-MULTI	0.000	0.000	0.000	8.188	8.017	7.292	1.100	Continuing	Continuing	
PMC BLI474700 Intell Support Equip TRSS-PIP	0.000	0.322	5.846	9.871	10.470	12.199	12.617	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										

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Sys	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems
<p>(U) C. ACQUISITION STRATEGY JSTARS: JSTARS will utilize existing Army JSTARS contracts with Motorola to procure CGS(s) and JSWS(s), for Pre-Planned Product Improvements (P3I) and Navy, JSTARS Interface software development. SPAWAR, Charleston, SC will oversee Naval JSTARS Interface (NJI) implementation into JSTARS CGS(s) and JSWS(s) and integration into the IAS. Motorola and SPAWAR contract reviews are held quarterly. Contractor logistical support will be provided through General Dynamic's I2P2 Contract.</p> <p>(U) C. ACQUISITION STRATEGY COBRA: Cobra ACAT IV(T) program uses Full and Open competition for the prime of the EMD phase using a CPIF contract with a follow-on FFP for the production phase.</p> <p>(U) C. 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 and program management. Once a system baseline is established and tested, a MS III decision will be scheduled.</p> <p>(U) C. 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.</p> <p>(U) C. 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.</p> <p>(U) C. ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.</p> <p>(U) C. ACQUISITION STRATEGY C1HEP: 8A contract will be used for ADP and Photo integration. US Army IMA will be used to integrate the TSS, Audio and Miscellaneous modules. The Communications module will use an existing USSOCOM contract.</p>		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Sys	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems

(U) D. SCHEDULE PROFILE: TPC

SCHEDULE

	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
Milestone 0	4Q							
Milestone I/II								
EDM Contract								
Field User Evaluation								
Milestone III								
IOC								
FOC								
Mod Refresh								

<u>Program Funding Summary</u> <u>(APPN, BLI #, NOMEN)</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007 To Compl</u>	<u>Total Cost</u>	
<u>(U) RDT&E,N</u>	0.317	0.337	0.349	0.357	0.365	0.374	0.382	Continuing	Continuing
<u>(U) PMC, BLI# Intell Supp Eq-TPC</u>	7.046	4.611	3.942	3.586	0.574	0	0	0	19.759

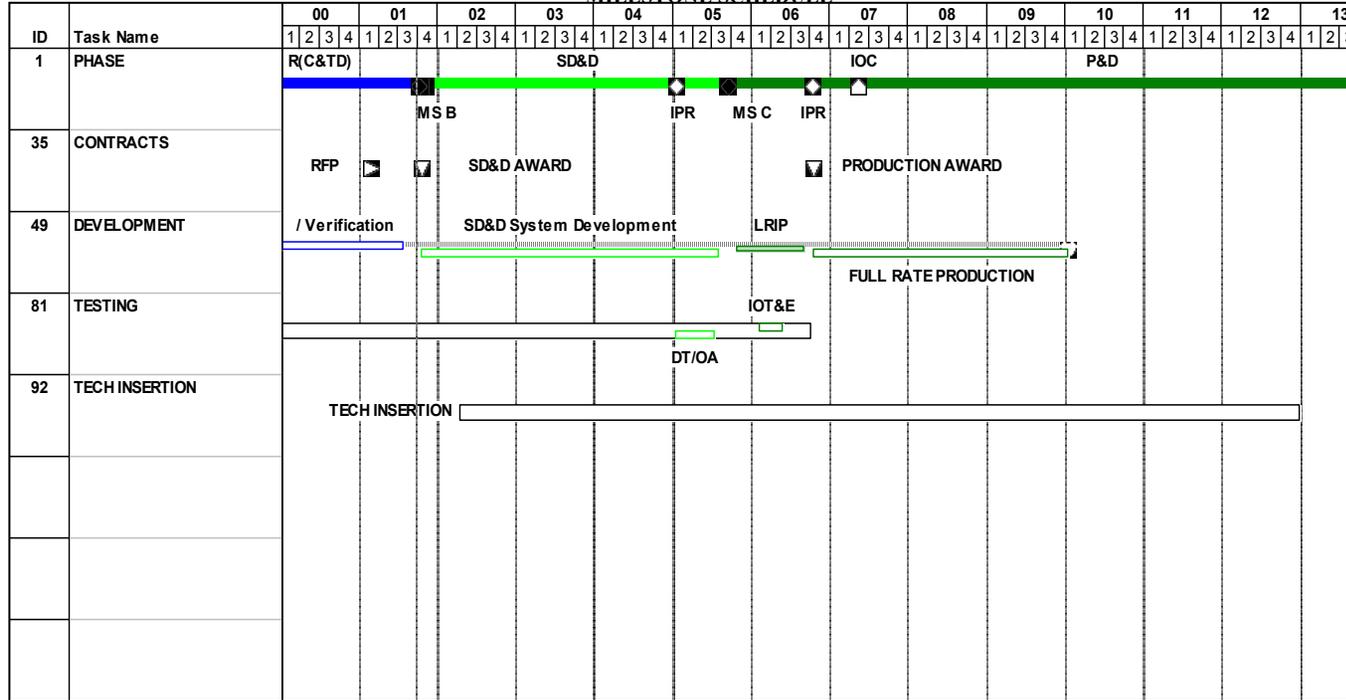
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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-7 Operational Sys Dev	PROGRAM ELEMENT NUMBER AND NAME 0206313M Marine Corps Communication Sys	PROJECT NUMBER AND NAME C2272 Intelligence C2 Systems

**COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS
(COBRA)**

MILESTONE SCHEDULE



<u>Program Funding Summary</u>	<u>FY 2001</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>To Compl</u>
<u>(APPN, BLI #, NOMEN)</u>								
(U) RDT&E,N	1.885	3.572	6.015	6.028	8.972	7.930	0.396	Continuing
(U) PMC BLI# 474700 Intell Supp Eq COBRA						3.911	0.287	Continuing

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Exhibit R-3 Cost Analysis							DATE: February 2002					
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 System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
TENCAP	Various	Delfin	2.209	0.576	12/00	0.650	10/01	2.275	10/02	Continuing	Continuing	
TENCAP	TBD	TBD		0.200	08/01	0.150	08/01	0.267	03/03	Continuing	Continuing	
TENCAP	MIPR	SMC/XRBP				0.320	04/01				0.320	0.320
COBRA	WR	CSS	0.350	0.450	12/00	0.650	10/01	0.658	10/02	Continuing	Continuing	
COBRA	RCP	BRTRC	0.160	0.100	12/00	0.137	12/01	0.159	12/02	Continuing	Continuing	
COBRA	WR	NAWC-AD		0.200	04/01	0.200	12/01	0.200	12/02	Continuing	Continuing	
COBRA	various	MARCORSYSCOM		0.185	04/01	0.099	04/02	0.025	04/03	Continuing	Continuing	
JSTARS	RCP	Logicon	0.242			0.250	03/02	0.300	03/03	Continuing	Continuing	
JSIPS - TEG	RCP	Logicon				0.432	01/02	0.479	01/03	Continuing	Continuing	
TPC	RCP	Logicon	0.238	0.133	12/00	0.147	12/01	0.150	12/02	Continuing	Continuing	
TPCS-MPC	RCP	CSS				0.000		0.514	TBD	Continuing	Continuing	
TPCS-MPC	RCP	Logicon				0.562	11/01	0.657	TBD	Continuing	Continuing	
TPCS-MPC	RCP	CSC				0.375	03/02					
TPCS-MPC	RCP	DAC				0.052	03/02					
Subtotal Support			3.199	1.844		4.024		5.684		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation											0.000	
Tooling											0.000	
JSTARS	WR	NSWC CRANE				0.327	03/02			0.000	0.327	0.327
TPC	MIPR	CECOM	0.332	0.184	12/00	0.190	12/01	0.199	12/02	Continuing	Continuing	
TPCS-MPC	RCP	SPAWAR				0.256	09/02	1.039	TBD	Continuing	Continuing	
TPCS-MPC	RCP	BTG				0.633	03/02					
Subtotal T&E			0.332	0.184		1.406		1.238		Continuing	Continuing	
Remarks:												

R-1 SHOPPING LIST - Item No. 194

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 25 of 70)

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Exhibit R-3 Cost Analysis							DATE: February 2002					
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 System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total P Y s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.000	0.000		0.000				0.000	0.000	
Remarks:												
Total Cost					6.483		18.286		19.900		Continuing	Continuing

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	24.261	24.074	63.320	65.786	18.464	21.219	18.398	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.
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 (OMFSTS) 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 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).
5. 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.
6. The Tactical Air Operations Module (TAOM) improves the current system; the TAOM is the center for directing aircraft and anti-air systems in real time as part of the joint air battle.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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
PROGRAM ACCOMPLISHMENTS AND PLANS		
FY 2001 Accomplishments		
<ul style="list-style-type: none"> • (U) \$ 0.243 ADCP: Continued software enhancements to meet ADCP ORD requirements. • (U) \$ 0 AV RDR: Continued safety ECP's developing a replacement IFF Interrogator, maintenance lift, False Alarm Adaptation (FAA) software, and development of software in support of two separate ORDs. This effort forward financed with \$758K of FY00 funding. • (U) \$ 7.478 AN/TPS-59: Antenna obsolescence ECPs to deal with diminishing manufacturing sources issue. • (U) \$ 0.539 AN/TPS-59: Counter arm missile defense capability to meet current threats. • (U) \$ 0.800 AN/TPS-59: Developed ECP to incorporate IFF antenna into main radar antenna. • (U) \$ 0.300 AN/TPS-59: Continued Program in Process Review and contract management. • (U) \$ 0.800 AN/TPS-59: Developed concept study for antenna mobility. • (U) \$ 1.992 CAC2S: Continued program management support. • (U) \$ 0.579 CAC2S: Independent Validation & Verification (SPAWAR Systems Center Charleston) of Phase I Contractor's Systems Design. • (U) \$ 9.882 CAC2S: Continued Phase I PDRR actions, awarded PDRR contract to demonstrate system engineering, software design and development, and Processing and Display System (PDS) efforts. Continued and completed initial sensor interface/integration and begun interoperability testing in preparation of Engineering. • (U) \$ 0.317 TBMCS: Continued USMC's TBMCS development. • (U) \$ 0.025 TBMCS: Continued MCTSSA TBMCS software support. • (U) \$ 0.268 TBMCS: Program management support. • (U) \$ 0.573 TBMCS: Initiated In-Service Engineering Activities in support of automation insertion into the DASC • (U) \$ 0.465 External Hold (U) Total \$ 24.261 		
FY 2002 Planned Program		
<ul style="list-style-type: none"> • (U) \$ 0.145 ADCP: Test and certify software enhancements. • (U) \$ 0.100 ADCP: Continue software enhancements to meet ADCP ORD requirements. • (U) \$ 6.000 AN/TPS-59: Demonstrate potential antenna technology/slotted waveguide antenna. • (U) \$ 2.131 AN/TPS-59: Develop ECP to incorporate electronic protection. • (U) \$ 1.500 AN/TPS-59: Develop ECP to incorporate new transmitters for the antenna. • (U) \$ 1.098 AN/TPS-59: Initiate ECP false alarm adaption software. • (U) \$ 2.500 CAC2S: Continue Program management support. • (U) \$ 7.190 CAC2S: Complete PDRR demonstration. Continue Engineering Development Model (EDM) hardware and software development, design, of host processing system, and conduct software integration of Joint mandated applications. • (U) \$ 0.052 MACCS SUSTAINMENT: Initiate test and evaluation on the DASC Airborne SLEP. • (U) \$ 2.432 MACCS SUSTAINMENT: Plan software upgrades for the TAOM, JTIDS and TACC. • (U) \$ 0.162 MACCS SUSTAINMENT: Program management support. • (U) \$ 0.454 TBMCS: Continue USMC TBMCS development. • (U) \$ 0.033 TBMCS: Continue MCTSSA TBMCS software support. • (U) \$ 0.277 TBMCS: Continue Program management support. (U) Total \$ 24.074 		

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EXHIBIT R-2a, RDT&E Project Justification		DATE:							
APPROPRIATION/BUDGET ACTIVITY		February 2002							
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) FY 2003 Planned Program:									
• (U) \$	0.111 ADCP: Continue Test and certify software enhancements.								
• (U) \$	0.100 ADCP: Continue software enhancements to meet ADCP ORD requirements.								
• (U) \$	2.569 AN/TPS-59: Develop ECPs for software improvements.								
• (U) \$	3.170 CAC2S: Continue Program management support.								
• (U) \$	49.783 CAC2S: Continue sensor interface/integration, communications interface/interoperability development.								
• (U) \$	3.000 CAC2S: Engineering Development Model (EDM) developmental testing and evaluation and baseline stabilization.								
• (U) \$	0.600 CAC2S: Continue Independent Validation and Verification (SPAWAR Systems Center Charleston) of Phase I Contractor's Systems Design.								
• (U) \$	0.022 MACCS SUSTAINMENT: Continue test and evaluation for the DASC Airborne.								
• (U) \$	0.899 MACCS SUSTAINMENT: Continue planned software upgrades in the DASC.								
• (U) \$	0.290 MACCS SUSTAINMENT: Continue Program management support.								
• (U) \$	2.000 MACCS SUSTAINMENT: Multi-Source Correlation System software development.								
• (U) \$	0.465 TBMCS: Continue USMC TBMCS development.								
• (U) \$	0.033 TBMCS: Continue MCTSSA TBMCS software support.								
• (U) \$	0.278 TBMCS: Continue Program management support.								
(U) Total \$	63.320								
(U) PROJECT CHANGE SUMMARY:									
	FY2001	FY2002	FY2003						
(U) FY 2002 President's Budget:	24.553	18.238							
(U) Adjustments from the President's Budget:									
(U) SBIR/STTR Transfer	-0.600								
(U) Execution Adjustment									
(U) Minor Affordability Adjustment		-0.164							
(U) Program Adjustment	0.308	6.000							
(U) FY 2003 President's Budget	24.261	24.074	63.320						
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See Above.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) B. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
(U) PMC, BLI#464000,TBMCS (CTAPS)	3.024	3.071	2.435	6.612	3.484	3.609	3.702	Continuing	Continuing
(U) PMC, BLI#462000, ADCP PIP	0.329	0.373	0.325	0.275	0.175	0.055	0	0	1.532
(U) PMC, BLI #463600, AN/TPS-59	1.068	5.23	4.323	4.815	5.508	13.297	32.085	Continuing	Continuing
(U) PMC, BLI #464000, Air Ops Systems CAC2S	0	0	0	0	47.059	43.812	34.525	Continuing	Continuing
(U) PMC, BLI #464000, MACCS SUSTAINMENT	0	0	3.104	4.136	4.865	0.593	0	0	12.698
(U) PMC, BLI 464000, TAOM	4.209	0	0	0	0	0	0	0	4.209
(U) Related RDT&E: Not Applicable.									

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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
<p>(U) C. ACQUISITION STRATEGY:</p> <p>(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 5 year FYDP.</p> <p>(U) CAC2S: The contracting strategy is centered on a family of options that will be exercised from PDRR through Increment II production based on contractor performance. The base contract is for PDRR and there will be options for EMD-I, EMD-II, Production-I and Production-II. The PDRR contract is a Cost Plus Fixed Fee for up to two contractors. Following the PDRR phase, an option for the EMD-I phase will be exercised for one contractor. The EMD contract options of Increment I and II will be Cost Plus Award Fee. After successful completion of each EMD, a production option will be exercised. The production contracts for Increment I and II will be Firm Fixed Price Successive Targets (Modified).</p> <p>(U) MACCS SUSTAINMENT: The Direct Air Support Central (Airborne) Abbreviated Acquisition Program is utilizing a sole-source strategy with Computing Devices Canada, a wholly-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.</p> <p>(U) ADCP: PM AD has an In Service Engineering (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 TADIL J capability to the TAOM (V)4 is being produced.</p> <p>(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.</p>		

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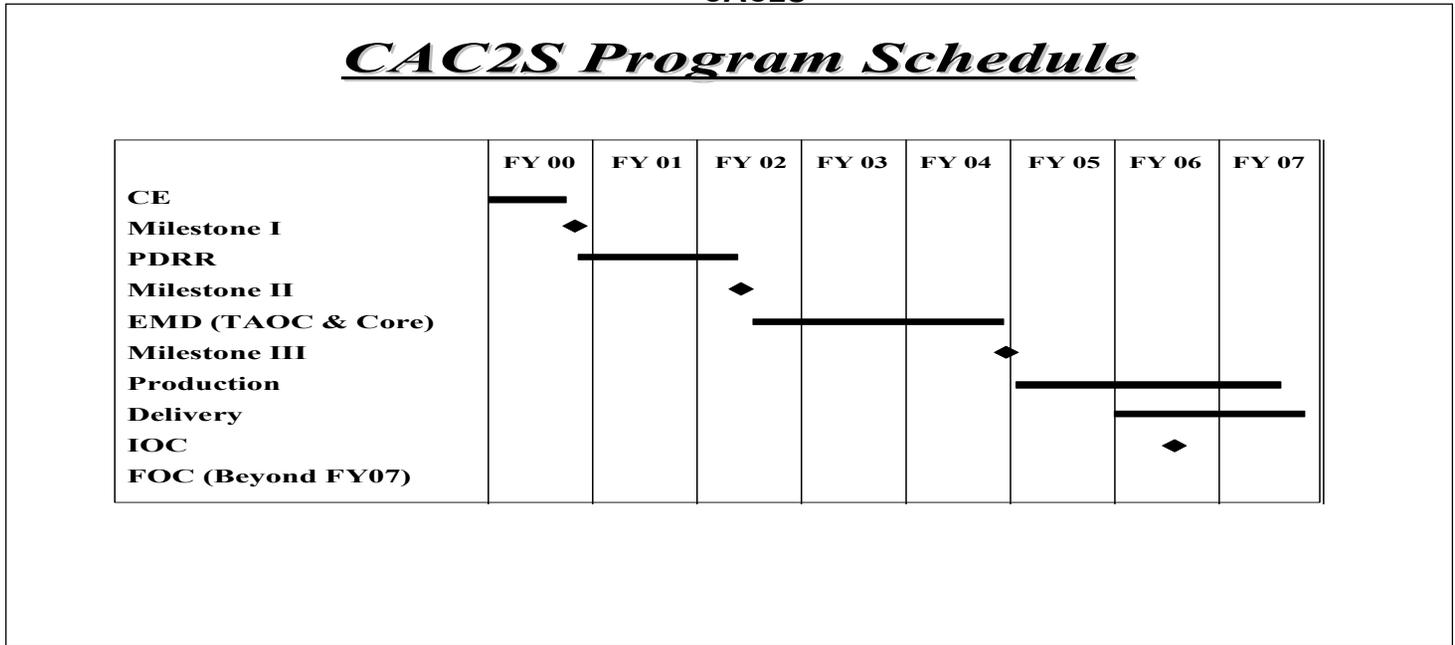
CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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. SCHEDULE PROFILE:

CAC2S

CAC2S Program Schedule



<u>Program Funding Summary</u>	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>									
<u>(U) RDT&E,N</u>	12.453	9.690	56.553	59.857	14.933	9.875	14.806	0	178.167
<u>(U) PMC, BLI# 464000 Air Ops Sys-CAC2S</u>	0	0	0	0	47.059	43.812	34.525	Continuing	Continuing

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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 C2273 Air Operations C2 Systems					
<p>TPS-59 RADAR SCHEDULE:</p> <p>(V)3 Fielding Schedule: 3rd Qtr 98 thru 3rd Qtr 99 IOC: Sep 98 FOC: Aug 99</p> <p>CEC Integration: 1st Qtr 99 thru 4th Qtr 00 Develop: 1st Qtr 99 thru 3rd Qtr 01 IV&V: 3rd Qtr 99 thru 4th Qtr 00</p> <p>Antenna Obsolesces ECP's: 1st Qtr 99 thru 3rd Qtr 04 Procure (Various): 1st Qtr 99 thru 4th Qtr 03 IOC: 2nd Qtr 01 FOC: 4th Qtr 07</p>										
<u>Program Funding Summary</u>		<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
(APPN, BLI #, NOMEN)										
(U) RDT&E,N		9.917	10.729	2.569	2.868	2.606	10.474	2.721	Continuing	Continuing
(U) PMC BLI# 463600 AN/TPS-59		1.068	5.230	4.323	4.815	5.508	13.297	32.085	Continuing	Continuing

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Exhibit R-3 Cost Analysis					DATE: February 2002							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Comm		C2273 Air Operations C2 Systems							
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	FY 03 Total Cost	Target Value of Contract
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
CAC2S	WR	MCSC, Quantico, VA	0.148	0.023	10/00	0.000		0.150	01/03	0.000	0.171	0.321
CAC2S	WR	MCTSSA, CPndltN,CA	0.050	0.030	10/00	0.030	01/02	0.050	01/03	Continuing	Continuing	
CAC2S	WR	MCLB Albany GA	0.011	0.005	10/00	0.005	01/02	0.005	01/03	Continuing	Continuing	
CAC2S	WR	3 rd MAW San Diego, CA	0.013	0.003	10/00	0.005	01/02	0.005	01/03	Continuing	Continuing	
CAC2S	WR	NWSC Crane, IN	0.316	0.261	10/00	0.600	01/02	1.000	01/03	Continuing	Continuing	
CAC2S	WR	CG 1 st MAW	0.014	0.003	10/00	0.005	01/02	0.005	01/03	Continuing	Continuing	
CAC2S	WR	2nd MAWCh Pt, NC	0.024	0.051	10/00	0.064	01/02	0.020	01/03	Continuing	Continuing	
CAC2S	WR	MarForRes NO, LA	0.006	0.003	10/00	0.005	01/02	0.005	01/03	Continuing	Continuing	
CAC2S	WR	MCAS Yuma, AZ	0.012	0.000		0.000		0.005	01/03	0.005	0.017	0.017
CAC2S	RCP	MCSC, Quantico, VA	0.124	0.000		0.000		0.000		0.000	0.124	0.124
CAC2S		MCOTEA	0.000	0.000		0.000		0.125	01/03	Continuing	Continuing	
MACCS Sustainment	WR	MCTSSA, CPndltN,CA	0.000	0.000		0.161	01/02	0.150	01/03	Continuing	Continuing	
ADCP	WR	MCTSSA, CPndltN,CA	0.120	0.003	11/00	0.088	01/02	0.056	01/03	Continuing	Continuing	
ADCP	WR	MCSC, Quantico, VA	0.040	0.000		0.030	01/02	0.030	01/03	Continuing	Continuing	
ADCP	WR	MCAGC, 29 Palms CA	0.002	0.000		0.000		0.000		0.000	0.002	0.002
ADCP	WR	MCLB Albany GA	0.004	0.000		0.000		0.000		0.000	0.004	0.004
ADCP	WR	2nd MAWCh Pt, NC	0.000	0.004	06/01	0.000		0.000			0.004	0.004
ADCP	RCP	MCTSSA, CPndltN,CA	0.000	0.059	09/01	0.000		0.000			0.059	0.059
AN/TPS-59	WR	NWSC Crane, IN	0.086	0.000		0.000		0.000		0.000	0.086	0.086
AN/TPS-59	WR	MCTSSA, CPndltN,CA	0.020	0.025	09/00	0.000		0.000		0.000	0.045	0.045
AN/TPS-59	WR	MCLB Albany GA	0.020	0.020	01/01	0.000		0.000		0.000	0.040	0.040
AN/TPS-59	WR	NRL, Washington, DC	0.327	0.000		0.000		0.000		0.000	0.327	0.327
AN/TPS-59	WR	2nd MAWCh Pt, NC	0.001	0.000		0.000		0.000		0.000	0.001	0.001
AN/TPS-59	WR	NSWC Crane, In	0.060	0.000		0.000		0.000		0.000	0.060	0.060
AN/TPS-59	WR	DLA, Syracuse, NY	0.000	0.005	10/00	0.000		0.000			0.005	0.005
AN/TPS-59	WR	MCSC, Quantico, VA	0.000	0.063	10/00	0.000		0.000			0.063	0.063
AN/TPS-59	WR	MCSC, Quantico, VA	0.000	0.033	01/01	0.000		0.000			0.033	0.033
AN/TPS-59	WR	MCLB Albany GA	0.000	0.013	10/00	0.000		0.000			0.013	0.013
AN/TPS-59	RCP	NSWC Crane, In	0.000	0.100	02/01	0.000		0.000			0.100	0.100
AN/TPS-59	RCP	GSA, Bremerton, WA	0.000	0.186	09/01	0.000		0.000			0.186	0.186
AN/TPS-59	RCP	MCSC, Quantico, VA	0.000	0.008	02/01	0.000		0.000			0.008	0.008
TBMCS	WR	MCTSSA, CPndltN,CA	0.025	0.025	10/00	0.033	01/02	0.000		0.000	0.083	0.083
TBMCS	WR	3rd MAW El Toro, CA	0.055	0.020	11/00	0.000		0.015	01/03	Continuing	Continuing	
TBMCS	WR	MCSC, Quantico, VA	0.063	0.040	10/00	0.102	01/02	0.040	01/03	Continuing	Continuing	
TBMCS	WR	MarForRes NO, LA	0.009	0.000		0.000		0.015	01/03	Continuing	Continuing	
TBMCS	WR	CG 1st MAW	0.001	0.000		0.000		0.015	01/03	Continuing	Continuing	
TBMCS	MIPR	GSA, Bremerton, WA	0.000	0.202	02/01	0.000		0.000			0.202	0.202
TBMCS	MIPR	ESC, Hanscom AFB,	0.000	0.000		0.000		0.296	01/03	Continuing	Continuing	
TBMCS	WR	2nd MAWCh Pt, NC	0.000	0.000		0.000		0.015	01/03	Continuing	Continuing	
TAOM	WR	MCTSSA, CPndltN,CA	0.086	0.000		0.000		0.000		0.000	0.086	0.086
TAOM	RCP	MCTSSA, CPndltN,CA	0.096	0.000		0.000		0.000		0.000	0.096	0.096
Subtotal Support			1.733	1.185		1.128		2.002		Continuing	Continuing	
Remarks:												

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Exhibit R-3 Cost Analysis								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev				PROGRAM ELEMENT 0206313M Marine Corps Comm			PROJECT NUMBER AND NAME C2273 Air Operations C2 Systems					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	FY 03 Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation											0.000	
Tooling											0.000	
MACCS Sustainment	RCP	MCTSSA, CPndltm,CA	0.000	0.000		0.053	01/02	0.061	01/03	Continuing	Continuing	
TBMCS	WR	Crane IN	0.132	0.447	11/00	0.000		0.000		0.000	0.579	0.579
ADCP	RCP	MCTSSA, CPndltm,CA	0.055	0.000		0.000		0.000		0.000	0.055	0.055
Subtotal T&E			0.187	0.447		0.053		0.061		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	FY 03 Total Cost	Target Value of Contract
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
TBMCS	CPFF	Logicon	0.131	0.178	10/00	0.175	01/02	0.230	01/03	Continuing	Continuing	
AN/TPS-59	CPFF	Logicon	0.451	0.538	10/00	0.000				Continuing	Continuing	
CAC2S	IDIQ	Logicon	1.069	1.665	06/01	1.000	01/02	1.800	01/03	Continuing	Continuing	
CAC2S	FFP	Mevatel, Crstl City VA	0.000	0.250	07/01	0.300	07/02	0.000		Continuing	Continuing	
CAC2S	FFP	MTC	0.000	0.300	07/01	0.000		0.000		0.000	0.300	0.300
CAC2S	WR	NavSup, Norfolk VA	0.000	0.157	07/01	0.000		0.000		0.000	0.157	0.157
External Hold				0.465								
Subtotal Management			1.651	3.553		1.475		2.030		Continuing	Continuing	
Remarks:												
Total Cost			26.279	24.261		24.074		63.320		Continuing	Continuing	

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
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 C2 Warfare Systems				
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	7.077	9.147	5.732	4.209	5.076	5.636	5.025	Cont	Cont
Defense Emergency Relief Funds (DERF) (Non-Additive)		4.3*							
Continuing War on Terrorism (Non-Additive)			3.7*	3.1*	4.3*	3.5*	2.1*		
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 ES and EA 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, manpackable/team transportable signals intelligence system that provides communications intercept, radio direction finding analysis and reporting to the Marine Air Ground Task Force (MAGTF) Commander. TPCS- Received \$2M from Defense Emergency Relief Funds (DERF). (\$3,400K) Team Portable Collection System (TPCS) provides OEF Marines with capability to conduct mission-configurable, multi-platform SIGINT collection and analysis. Conduct integration, testing, and assessment of prototypes.
4. The Radio Reconnaissance Equipment Program (RREP) provides the FMF 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-2 module configuration has an "open systems" architecture that will permit future upgrades by simply installing cutting edge NDI/COTS/GOTS technology into the standard modules. The fourth suite, RREP-SS-3, to be fielded in FY04, will have the added capability to intercept those emerging target sets as identified by the NSA, be operated from remoted positions, and incorporate polymer battery technologies.
RREP - Received \$.8M from Defense Emergency Relief Fund (DERF). (\$300K) RREP provides OEF Marines with capability to prosecute close-range, low-powered signals of interest. Provide logistics support for fielded systems. Conduct integration, testing, and assessment of prototypes.
5. FLAMES (CESAS) - Received \$1.5M from Defense Emergency Relief Fund (DERF).

	FY03	FY04	FY05	FY06	FY07
Continuing War on Terrorism					
Team Portable collection System	3.4	2.8	3.8	3.0	1.6
Radio Reconnaissance Equipment Program	0.3	0.3	0.5	0.5	0.5

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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 C2 Warfare Systems
(U) PROGRAM ACCOMPLISHMENTS AND PLANS		
FY 2001 Accomplishments		
• (U) \$	0.600 MEWSS PIP: Operational Testing	
• (U) \$	0.000 MEWSS PIP: Completed integration of Electronic Attack module. This effort forward financed with \$160K of FY00 funding.	
• (U) \$	4.675 MEWSS PIP: Mobility enhancements, data storage/archiving, data import/export, SEI, sensor control.	
• (U) \$	0.152 TPCS Upgrade: Completed Operational Testing and Evaluation.	
• (U) \$	0.000 TERPES: Begin and completed software and hardware integration for Joint Tactical Terminal (JTT). This effort forward financed with \$100K of FY00 funding.	
• (U) \$	0.420 TERPES: Continued development of TERPES mission planning software to maintain compatibility with the EA-6B software changes.	
• (U) \$	0.100 TERPES: Continued development of advanced communications suite for Joint Interoperability hardware/ software changes.	
• (U) \$	0.236 TERPES: Continued DII/COE compliance to reach level 6.	
• (U) \$	0.000 TERPES: Continued DII/COE compliance to reach level 6 and NT migration. This effort forward financed with \$31K of FY00 funding.	
• (U) \$	0.275 TERPES: Begin enhanced TERPES Fusion Engine Software.	
• (U) \$	0.000 TERPES: Begin enhanced TERPES Fusion Correlator Software. This effort forward financed with \$509K of FY00 funding.	
• (U) \$	0.366 TERPES: Continued to enhance TERPES Fusion Correlator Software.	
• (U) \$	0.201 RREP: Development efforts in support of remote control operations (SS-3).	
• (U) \$	0.052 Funds set aside for ONR Taxes.	
(U) Total \$	7.077	
FY 2002 Planned Program		
• (U) \$	2.300 MEWSS PIP: Funds system enhancements to include efforts toward full DII/COE compliance.	
• (U) \$	2.556 MEWSS PIP: Development work to transition from centralized software architecture to a common EW architecture.	
• (U) \$	0.211 TPCS Upgrade: Begin System Engineering and Technical Assistance (SETA) (CSC).	
• (U) \$	0.293 TPCS Upgrade: Software revision/upgrade, system enhancements.	
• (U) \$	0.650 TERPES: Continue development of TERPES mission planning software to maintain compatibility with EA-6B software changes and begin ICAP III final integration.	
• (U) \$	0.150 TERPES: Continue development of advanced communications suite for Joint Interoperability hardware/software changes.	
• (U) \$	0.500 TERPES: Continue DII/COE compliance to reach level 7.	
• (U) \$	0.450 TERPES: Continue DII/COE compliance to reach level 7 and NT migration.	
• (U) \$	0.618 TERPES: Continue Enhanced TERPES Fusion Engine Software.	
• (U) \$	0.450 TERPES: Continue Enhanced TERPES Correlator Software.	
• (U) \$	0.231 TERPES: Continue TEPP/TSP enhancement processing.	
• (U) \$	0.200 TERPES: Continue Hardware research testing and integration.	
• (U) \$	0.150 TERPES: In-House program management.	
• (U) \$	0.100 RREP: Complete integration GOT/COTS electronic attack (EA) capability (SS-2).	
• (U) \$	0.288 RREP: Integrate GOTS/COTS electronic attack (EA) capability (SS-3).	
(U) Total \$	9.147	

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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 C2274 C2 Warfare Systems	
(U) FY 2003 Planned Program:			
• (U) \$ 0.600 MEWSS PIP: Begin development of upgraded comint subsystem with objective of reducing physical profile, increasing capabilities, and extending effective service life.			
• (U) \$ 0.700 MEWSS PIP: Develop simplified communications chassis.			
• (U) \$ 0.409 MEWSS PIP: Continue efforts towards full DII/COE compliance.			
• (U) \$ 0.242 TPCS Upgrade: Continue System Engineering and Technical Assistance (SETA) (CSC).			
• (U) \$ 0.440 TPCS Upgrade: Software upgrades/system enhancements.			
• (U) \$ 0.600 TERPES: Continue development of TERPES mission planning software to maintain compatibility with EA-6B software changes and continue ICAP III final integration.			
• (U) \$ 0.150 TERPES: Continue development of advanced communications suite for Joint Interoperability hardware/software changes.			
• (U) \$ 0.350 TERPES: Complete DII/COE compliance to reach level 7.			
• (U) \$ 0.450 TERPES: Continue DII/COE compliance to reach level 7 and NT migration.			
• (U) \$ 0.564 TERPES: Continue Enhanced TERPES Fusion Engine Software.			
• (U) \$ 0.450 TERPES: Continue Enhanced TERPES Fusion Correlator Software.			
• (U) \$ 0.241 TERPES: Continue TEPP/TSP enhancement processing.			
• (U) \$ 0.241 TERPES: Continue Hardware research testing and integration.			
• (U) \$ 0.100 TERPES: In-House program management.			
• (U) \$ 0.195 RREP: Complete integration GOTS/COTS electronic attack (EA) capability (SS-3).			
(U) Total \$ 5.732			
(U) PROJECT CHANGE SUMMARY:			
	FY2001	FY2002	FY2003
(U) FY 2002 President's Budget:	7.592	5.429	
(U) Adjustments from the President's Budget:			
(U) SBIR/STTR Transfer	-0.190		
(U) Execution Adjustment	-0.281		
(U) Minor Affordability Adjustment		-0.082	
(U) Program Adjustment	-0.044	3.800	
(U) FY 2003 President's Budget:	7.077	9.147	5.732
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 2002
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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 C2274 C2 Warfare Systems
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(U) B. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U) PMC BLI 474900 Mod Kits INTEL TERPES	0.000	3.004	0.000	2.910	0.000	3.022	0.000	Continuing
(U) PMC BLI 463600 Modification Kits MEWSS	4.891	14.614	26.127	27.063	0.711	1.206	0.511	Continuing
(U) PMC BLI 474900 Mod Kits INTEL TPCS	2.809	0.000	0.000	2.465	2.071	0.000	0.000	0
(U) PMC BLI 474700 Intell Suppt Eq RREP	0.000	0.000	3.979	0.000	0.000	4.233	0.000	0

(U) Related RDT&E:

(U) (U) PE 0305885G (Tactical Cryptologic Program)

(U) C. ACQUISITION STRATEGY TERPES: The acquisition of components for the TERPES upgrade refresh will maximize the use of existing equipment, NDI/COTS/GOTS/GFE equipment/software. The integration effort for TERPES hardware components will be accomplished under the control of the WSSA, NAWCWD. Software integration and support will be accomplished by contractors under the control of the TERPES WSSA NAWCWD. These activities report to, and are directed by, the program Manager, Command Information Systems, Marine Corps Systems Command (MARCORSYSCOM). This strategy accomplishes several goals: standardization, use equipment that can be serveral goals: standardization, use equipment that can be acquired and fielded quickly, reduce logitics requirements, and reduce costs of software maintenance.

(U) C. ACQUISITION STRATEGY MEWSS PIP: The MEWSS PIP is initiating Marine Corps Systems Command-administered contracts as folow-on to the Army CECOM Intellegence and Electronic Warfare Common Sensor (IEWCS) contract used for development of the three MEWSS PIP LRIP vehicles. These contracts are being pursued as sole source to Lockheed Martin systems Integration in Owego, New York.

(U) C. 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) C. 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).

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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 C2274 C2 Warfare Systems

(U) D. SCHEDULE PROFILE:

MEWSS-PIP Milestone Schedule

	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
MILESTONE 0								
MILESTONE I/II								
OT PHASE 1	X							
OT PHASE 2				X				
MILESTONE III					X			
PRODUCTION CONTRACT AWARD					X			
PRODUCTION					X	-----	-----	
IOC					X			
FOC								X

Program Funding Summary

(APPN, BLI #, NOMEN)

	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
<u>(U) RDT&E,N</u>	5.275	4.856	1.709	0	0	0	0	0	11.84
<u>(U) PMC, BLI# 463600 Mod Kits MEWSS</u>	4.891	14.614	26.127	27.063	0.711	1.206	0.511	Continuing	Continuing

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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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 C2274 C2 Warfare Systems
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TPCS UPGRADE MILESTONE SCHEDULE

PHASE	FY 98	FY 99	FY 00	FY 01	FY 02
MILESTONE 0					
MILESTONE I/II					
OT		X			
MILESTONE III		X			
PRODUCTION CONTRACT AWARD			X		
PRODUCTION			X		
IOC				X	
FOC					X

<u>Program</u> <u>(APPN, BLI #, NOMEN)</u>	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	0.152	0.504	0.682	0.354	0.355	0.790	0.690	0.000	3.527
(U) PMC BLI 474900 Mod Kits INTEL (TPCS)	2.809	0	0	2.465	2.071	0	0	0	7.345

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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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 C2274 C2 Warfare Systems
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**RREP
MILESTONE SCHEDULE**

PHASE	FY 98	FY 99	FY 00	FY 01	FY 02
MS II (SS-2)	2Q				
MS III (SS-2)			1Q		
ELECTRONIC ATTACK (EA MODULE)			3Q		
MS 0/I (SS-3)			4Q		
REMOTE EA CAPABILITY				2Q	
IOC/FOC (SS-2)				3Q	
MS II (SS-3)				3Q	
MS III (SS-3)					4Q

<u>Program</u> <u>(APPN, BLI #, NOMEN)</u>	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	0.201	0.388	0.195	0.312	0.451	0.460	0.471	Continuing	Continuing
(U) PMC BLI 474700 Intell Suppt EQ RREP	0.000	0.000	3.979	0.000	0.000	4.233	0.000	0.000	8.212

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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys		C2274 C2 Warfare Systems							
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												
Ancillary Hardware Development												
Systems Engineering												
Licenses												
Tooling												
GFE												
Award Fees												
MEWSS	CPFF	Lockheed Martin	5.941	5.275	08/01	4.856	11/01	1.709	11/02	Continuing	Continuing	
TPCS Upgrade	CPFF	DAC/BTG	0.508	0.152	01/01	0.293	01/02	0.440	01/03	Continuing	Continuing	
TERPES	RCP	NSWC, Crane In	0.000	0.262	05/01	0.699	10/01	0.863	10/02	Continuing	Continuing	
TERPES	MIPR	SMC/ADF El Segundo	0.000	0.275	01/01	1.318	10/01	1.167	10/02	Continuing	Continuing	
TERPES	RCP	NAWCWPNS	1.569	0.520	05/01	0.700	02/02	0.600	02/03	Continuing	Continuing	
TERPES	WR	PT Mugu, CA	0.429	0.248	05/01	0.432	12/01	0.241	12/02	Continuing	Continuing	
RREP	CPFF	PM-CISS NEW,VA	0.535	0.201	01/01	0.388	01/02	0.195	01/03	Continuing	Continuing	
ONR Taxes				0.052								
Subtotal Product Development			8.982	6.985		8.686		5.215		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support Equipment												
Software Development												
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
TPCS Upgrade	CPFF	CSC	0.225	0.000	02/01	0.211	10/01	0.242	10/02	Continuing	Continuing	
TERPES	WR	NAWCWPNS, Pt Mugu	0.099	0.092	02/01	0.100	11/01	0.100	11/02	Continuing	Continuing	
TERPES	RCP	LOGICON	0.000	0.000		0.150	01/02	0.175	01/03	Continuing	Continuing	
Subtotal Support			0.324	0.092		0.461		0.517		Continuing	Continuing	
Remarks:												

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Exhibit R-3 Cost Analysis							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys		C2274 C2 Warfare Systems							
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												
Operational Test & Evaluation												
Tooling												
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Support												
Government Engineering Support												
Program Management Support												
Travel												
Labor (Research Personnel)												
Overhead												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Total Cost				7.077		9.147		5.732		Continuing	Continuing	

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EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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				
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	0.000	0.000	0.597	1.393	1.787	0.991	0.990	Cont	Cont
RDT&E Articles Qty									

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

(U) Joint Tactical Radio System - JTRS - A joint program established to develop and validate a software and hardware architecture for the development of modern, digital communication systems. It is a software programmable, multi-band, multi-mode radio that provides integrated data, video, and voice to support dissemination of battlespace command and control data, Situational Awareness (SA) data, and C2 voice circuits. JTRS is an integrated solution to support mechanized, mobile, and dismounted forces where the ground domain versions will provide vehicle, manpack, and hand-held radios. The system will also provide embedded networking and information security.

(U) RadBn Mods - Received \$2M from Defense Emergency Relief Funds (DERF). Integration into Radio Battalion architecture for hardware and software.

PROGRAM ACCOMPLISHMENTS AND PLANS

(U) FY2001 Accomplishments: Not Applicable.

(U) FY2002 Planned Program: Not Applicable.

(U) FY 2003 Planned Program:

- (U) \$ 0.597 JTRS: Begin Integration/Migration Studies and Analysis.
- (U) Total \$ 0.597

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002			
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) PROJECT CHANGE SUMMARY:										
	FY2001	FY2002	FY2003							
(U) FY 2003 NAVCOMPT Budget:	0.000	0.000								
(U) Adjustments from the NAVCOMPT Budget:										
(U) SBIR/STTR Transfer										
(U) Execution Adjustment										
(U) Minor Affordability Adjustment										
(U) Program Adjustment OSD										
(U) FY 2003 President's Budget:	0.000	0.000	0.597							
CHANGE SUMMARY EXPLANATION:										
(U) Funding: See Above.										
(U) Schedule: Not Applicable.										
(U) Technical: Not Applicable.										
(U) B. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>	
(U) PMC, BLI# 463300 Radio Systems(JTRS)	0.000	0.000	0.000	0.000	4.518	17.295	17.262	Continuing	Continuing	
(U) Related RDT&E: Not Applicable										
(U) C. ACQUISITION STRATEGY:										
<p>(U) JTRS - The acquisition strategy for JTRS is based on an open standard Software Communications Architecture (SCA) that allows independent development of JTR Sets and waveform applications. JTR Sets include all hardware components and the necessary software infrastructure consisting of an operating system, the core framework (CF), specific functional services, and integrated waveform applications. The acquisition strategy is divided into two phases: Cluster 1 (vehicular variant) and Cluster 2 (Manpack/Hand held variant). Ultimately the JTRS family of radios will replace all legacy radio systems as they reach the end of their service life.</p>										

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
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 C2276 Communications Switching & Control Systems					
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	0.186	0.969	4.766	0.602	0.603	0.603	0.604	Cont	Cont
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:									
<p>(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. DMS will do everything our current NT MIGRATION FY99 and AUTODIN systems do as well as provide connectivity to all users in DoD</p> <p>(U) The Joint Network Management System (JNMS) is a CINC and Commander, Joint Forces joint 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 CINC will utilize JNMS to support a deployed JTF Joint Communications Control Center (JCCC). All joint level managers and Service component headquarters level system controls (SYSCONs) will use the JNMS. Service components will use the JNMS to ensure that their plans are coordinated with the CINC's Annex K.</p> <p>(U) The ULCS PIP Transition Switch Module (TSM) will provide a flexible Unit Level Switch capability that bridges legacy Tri-Tac switches with current commercial technology to provide Marine maneuver elements with more robust voice/data switching, data transport and bandwidth management capabilities. This program will maintain USMC joint interoperability as the other Services transition to COTS switching technologies</p>									
(U) PROGRAM ACCOMPLISHMENTS AND PLANS									
FY 2001 Accomplishments									
<ul style="list-style-type: none"> • (U) \$ 0.186 DMS: Supported software and hardware integration/testing. Incorporated evolutionary security products into the unclassified DMS architecture within a Marine Corps-unique network infrastructure. 									
(U) Total \$ 0.186									
FY 2002 Planned Program									
<ul style="list-style-type: none"> • (U) \$ 0.969 JNMS: Begin development of JNMS hardware suites and upgrade SPEED for DII COE LVL 6 compliance 									
(U) Total \$ 0.969									
(U) FY 2003 Planned Program:									
<ul style="list-style-type: none"> • (U) \$ 1.101 JNMS: Complete development and test of JNMS hardware suites • (U) \$ 3.665 ULCS TSM: Development and testing of Engineering Development Models (EDM) 									
(U) Total \$ 4.766									

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EXHIBIT R-2a, RDT&E Project Justification						DATE:		
						February 2002		
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				C2276 Communications Switching & Control Systems			
(U) PROJECT CHANGE SUMMARY:								
	FY2001	FY2002	FY2003					
(U) FY 2002 President's Budget:	0.224	0.986						
(U) Adjustments from the President's Budget:								
(U) SBIR/STTR Transfer								
(U) Execution Adjustment	-0.028							
(U) Minor Affordability Adjustment		-0.017						
(U) Program Adjustment	-0.010							
(U) FY 2003 President's Budget:	0.186	0.969	4.766					
CHANGE SUMMARY EXPLANATION:								
(U) Funding: See Above.								
(U) Schedule: Not Applicable.								
(U) Technical: Not Applicable.								
(U) B. OTHER PROGRAM FUNDING SUMMARY:								
<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U)PMC BLI 463400 Communications Switching and Control Systems								
DMS	3.124	0.000	3.974	5.953	0.000	0.000	0.000	13.051
JNMS	0.000	0.000	0.000	8.235	7.668	0.000	0.000	15.903
ULCS TSM	0.000	0.000	0.000	25.790	45.688	84.577	19.896	175.951
BLACKJACK DIGITAL FAX	0.000	0.987	0.000	0.000	0.000	0.000	0.000	0.987
(U) Related RDT&E: Not Applicable.								
(U) C. ACQUISITION STRATEGY JNMS: The JNMS acquisition strategy is in accordance with DoD 5000.2-R; Mandatory Procedures for MDAPs and MAIS Acquisition Programs. It is based on awarding a competitive contract for the development of the JNMS software baseline. The contract will be awarded using a best value, full and open competition source selection process. It will stress the use of COTS for satisfying the requirement. If COTS is not available, then Government-off-the-Shelf (GOTS) products will be the next strategy emphasized. A performance specification will be used as the technical basis for the JNMS. The JNMS is an Acquisition Category (ACAT) III, non-major joint program. The Milestone Decision Authority (MDA) for the JNMS is the Program Executive Officer, Command, Control and Communications Systems (PEO C3S).								
(U) C. ACQUISITION STRATEGY ULCS/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.								

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DATE: February 2002

Exhibit R-3 Cost Analysis
 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

Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Eval												
Operational Test & Eval												
Tooling												
JNMS	MIPR	TBD	0.000	0.000		0.000		0.400	10/02	Continuing	Continuing	
TSM	CPFF	TBD	0.000	0.000		0.000		0.950	10/02	0.000	0.950	0.950
Subtotal T&E			0.000	0.000		0.000		1.350		Continuing	Continuing	

Remarks:

Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Suppt												
Govt Engineering Suppt												
Program Management Suppt												
Travel												
Labor (Research Personnel)												
Overhead												
JNMS	FFP	TBD	0.000	0.000		0.125	02/02	0.126	10/02	Continuing	Continuing	
TSM	FFP	TBD	0.000	0.000		0.000		0.552	10/02	0.000	0.552	0.552
Subtotal Management			0.000	0.000		0.125		0.678		Continuing	Continuing	

Remarks:

Total Cost			0.255	0.186		0.969		4.766		Continuing	Continuing	
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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	10.084	13.244	9.912	11.810	11.011	12.619	11.857	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.

1. The Marine Air-Ground Task Force Command, Control, Communications, Computers, and Intelligence Systems Engineering and Integration, Coordination. (MAGTF C4I SE&IC) 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. MAGTF SE&IC changes name to MAGTF SEI&C in FY00.
2. 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.
3. 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.
4. 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.
5. 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).
6. 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.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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
PROGRAM ACCOMPLISHMENTS AND PLANS		
FY 2001 Accomplishment		
<ul style="list-style-type: none"> • (U) \$ 1.158 JWID: Participated in JWID, a JCS-mandated program, to demonstrate new C4I interoperability concepts. In JWID-01, USMC is the service lead. Conducted primary planning equipment preparation, and hosting. JWID-01 offers the opportunity for demonstrations of emerging technologies in interoperability, information dissemination, fusing and communications. • (U) \$ 1.001 JINTACCS: Participated in JINTACCS, a JCS-mandated program aimed at ensuring interoperability of tactical systems. Provided analysis, engineering and technical support in developing joint standards. Provided interoperability testing/certification in support of C4I systems. Provided technical support in various joint programs and ACTDs. • (U) \$ 6.892 MAGTF SEI&C: Provided systems engineering and technical support for configuration management of MAGTF C4I system and its migration to the DII COE. Provide analysis, studies and reviews in the development and implementation of the COE migration strategy. Continued the development of the MAGTF C4I Systems/Technical Architecture and Repository (MSTAR). Supported D-30 process to integrate Marine C4I systems onto amphibious ships for MEU deployments. Provided engineering support for remaining Y2K problems within MAGTF C4I systems. Conducted engineering verification and validation for the family of MAGTF C4ISR systems that support situational awareness for Ground Combat Element (GCE) component. Developed and maintained a comprehensive Information Assurance program for MAGTF C4ISR. Provided USMC share of ASCIET exercise per established MOA. • (U) \$ 0.000 MAGTF SEI&C: Provided engineering and technical support for configuration management of MAGTF C4I system and its migration to the DII COE. This effort forward financed with \$177K of FY00 funding. • (U) \$ 0.166 GBS: Provided for Product Development and Integration • (U) \$ 0.505 GBS: Provided Support and Management for Confidence/User Evaluation. • (U) \$ 0.230 GBS: Operational Test Planning and Integration Testing Planning. • (U) \$ 0.004 CCR MCHS: Tested and selected computer hardware products for the Marine Corps Common Hardware Suite (MCHS). • (U) \$ 0.128 Funds set aside for ONR Taxes <p>(U) Total \$ 10.084</p>		
FY 2002 Planned Program:		
<ul style="list-style-type: none"> • (U) \$ 2.563 JWID: Participate in JWID, a JCS mandated program, to demonstrate new C4I interoperability concepts. In FY02, JWID is concerned with transitioning the best products from the JWID-01 exercise in FY01 into the acquisition system. It will also support management and planning of exercise JWID-03. • (U) \$ 1.680 JINTACCS: Participate in JINTACCS, a JCS-mandated program aimed at ensuring interoperability of tactical systems. Provide analysis Engineering and technical support in developing joint standards. Provide interoperability testing/certification in support of C4I systems. Provide technical support in various joint programs and ACTD's. • (U) \$ 4.324 MAGTF SEI&C: Provide engineering and technical support for configuration management of MAGTF C4I systems and its migration to the DII COE. Maintain MSTAR system as technical roadmap to MAGTF C4I system integration. Provide 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. Continue engineering support to D-30 Amphib Ready Group (ARG) preparation process. • (U) \$ 0.858 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. • (U) \$ 1.037 Ballon Upgrade: • (U) \$ 0.624 GBS: Continue support and Management for Confidence/User Evaluation. 		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002	
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	
<ul style="list-style-type: none"> • (U) \$ 0.460 GBS: Operational Testing and Integration Testing. • (U) \$ 1.698 CCR MCHS: Provide for research, evaluation, test and selection of computer hardware products for the Marine Corps Common Hardware Suite (MCHS). Develop 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 \$	13.244		
(U) FY 2003 Planned Program:			
<ul style="list-style-type: none"> • (U) \$ 1.161 JWID: Participate in JWID, a JCS mandated program, to demonstrate new C4I interoperability concepts. In FY03, JWID is concerned with transitioning the best products from the JWID-02 exercise in FY02 into the acquisition system. It will also support management and planning of exercise JWID-04. • (U) \$ 1.744 JINTACCS: Participate in JINTACCS, a JCS-mandated program aimed at ensuring interoperability of tactical systems. Provide analysis Engineering and technical support in developing joint standards. Provide interoperability testing/certification in support of C4I systems. Provide technical support in various joint programs and ACTD's. • (U) \$ 4.425 MAGTF SEI&C: Provide systems engineering and technical support to Program Managers of Marine Corps C4ISR systems. Assist Program Managers in Command, Control, Communications, Computers and Intelligence Support Plan (KPPs) are met. Continue engineering support to D-30 Amphib Ready Group (ARG) preparation process. • (U) \$ 1.044 MAGTF SEI&C (JDEP): Continue Marine Corps participation in 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. • (U) \$ 1.538 CCR MCHS: Provide for research, evaluation, test and selection of computer hardware products for the Marine Corps Common Hardware Suite (MCHS). Develop 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 \$	9.912		
(U) PROJECT CHANGE SUMMARY:			
	FY2001	FY2002	FY2003
(U) FY 2002 President's Budget:	7.904	12.316	
(U) Adjustments from the President's Budget:			
(U) SBIR/STTR Transfer	-0.072		
(U) Execution Adjustment	-0.143	-0.172	
(U) Minor Affordability Adjustment			
(U) Program Adjustment	2.395	1.100	
(U) FY 2003 President's Budget:	10.084	13.244	9.912
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 2002			
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) B. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost	
PMC BLI 463000 CCR	80.386	21.030	38.974	48.274	49.101	58.888	71.643	Cont	Cont
PMC BLI 463300 RADIO SYSTEMS	15.082	48.780	25.528	10.544	27.434	17.295	17.262	161.925	161.925
 (U) Related RDT&E: (U) PE 0604817A (U) PE 0206623M, Marine Corps Ground Combat/Supporting Arms Systems									
 (U) C. 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.									
 (U) D. SCHEDULE PROFILE: Not Applicable.									

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Exhibit R-3 Cost Analysis						DATE: February 2002						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys			C2277 Systems Engineering & Integration						
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev											0.000	
Ancillary Hardware Dev											0.000	
Systems Engineering											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
JWID	RCP	MCSC Quantico, VA	0.000	0.747	10/00	0.637	10/01	0.640	12/02	Continuing	Continuing	
JWID	WR	NSWC Dahlgren, VA	0.000	0.000		0.100	05/02			Continuing	Continuing	
JWID	WR	MCSC Quantico, VA	0.000	0.000		0.117	10/01	0.021	10/02	Continuing	Continuing	
GBS	WR	MCTSSA, Cp Pndltn, CA	0.000	0.100	11/00	0.000				0.000	0.100	0.100
GBS	WR	MCSC Quantico, VA	0.000	0.066	10/00	0.080	10/01			0.000	0.146	0.146
JINTACCS	SS	CECOM Ft Monmouth NJ	0.029	0.000		0.000		0.000		0.000	0.029	0.029
BALLON UPGRADE	TBD	TBD				1.037						
Subtotal Product Dev			0.029	0.913		1.971		0.661		Continuing	Continuing	
Remarks:												

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Exhibit R-3 Cost Analysis					DATE: February 2002							
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT		PROJECT NUMBER AND NAME							
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys		C2277 Systems Engineering & Integration							
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support Equip											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
JWID	C/FFP	Logicon, Stafford, VA	0.315	0.411	10/00	1.709	10/01	0.500	10/02	Continuing	Continuing	
MAGTF SEI&C	MIPR	CECOM Ft Monmouth NJ	0.350	0.230	02/01	0.369	12/01			Continuing	Continuing	
MAGTF SEI&C	CPFF	OSEC, Stafford, VA	0.080	0.223		0.000				Continuing	Continuing	
MAGTF SEI&C	C/FFP	Logicon, Stafford, VA	4.133	1.068	10/00	0.680	10/01	0.985	10/02	Continuing	Continuing	
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.268	0.140	10/00	0.106	10/01	0.110	10/02	Continuing	Continuing	
MAGTF SEI&C	MIPR	Eglin AFB, FL	1.261	0.000		0.000		0.000		Continuing	Continuing	
MAGTF SEI&C	MIPR	ASCJET JPO	0.000	0.325	11/00	0.000		0.000		0.000	0.325	0.325
MAGTF SEI&C	WR	II MEF	0.000	0.030	11/00	0.430	11/01	0.370	11/02	Continuing	Continuing	
MAGTF SEI&C	MIPR	GSA	0.000	0.140	11/00	0.205	11/01	0.000		Continuing	Continuing	
MAGTF SEI&C	WR	NSWC Crane IN	0.000	0.108	11/00	0.214	11/01	0.000		Continuing	Continuing	
MAGTF SEI&C	RCP	MCSC, Quantico, VA	0.000	0.045		0.000		0.000		0.000	0.045	0.045
MAGTF SEI&C	MIPR	CECOM Ft Monmouth NJ	0.000	0.613		0.000		0.000		0.000	0.613	0.719
MAGTF SEI&C	WR	MCSC, Quantico, VA	0.000	0.085	12/00	0.000		0.000		0.000	0.085	0.085
MAGTF SEI&C (JDEP)	TBD	TBD	0.000	0.000		0.858	TBD	1.044	TBD	Continuing	Continuing	
MAGTF SEI&C (INIT)	C/FFP	Logicon, Stafford, VA	0.000	0.000		1.495	12/01	0.000		Continuing	Continuing	
MAGTF SEI&C (INIT)	CPFF	Raytheon, Fullerton, CA	0.000	0.000		0.655	12/01	0.000		Continuing	Continuing	
GBS	C/FFP	Logicon, Stafford, VA	0.000	0.495	11/00	0.492	02/02	0.000		0.000	0.987	1.022
GBS	C/CPF	Raytheon, Fullerton, CA	0.000	0.000		0.040	02/02	0.000		0.000	0.040	0.040
GBS	WR	III MEF	0.000	0.040	11/00	0.092	02/02	0.000		0.000	0.132	0.132
CCR	Various	Various	0.000	0.000		0.395	11/01	0.200	12/02	Continuing	Continuing	
CCR	MPR	GSA	0.000	0.000		0.802	03/02	0.802	03/02	Continuing	Continuing	
CCR	WR	NSWC Crane IN	0.000	0.000		0.200	06/02	0.200	06/02	Continuing	Continuing	
CCR	RCP	MCSC, Quantico, VA	0.000	0.000		0.037	03/02	0.037	03/02	Continuing	Continuing	
ONR TAXES				0.128								
Subtotal Support			6.407	4.081		8.779		4.248				
Remarks:												

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Exhibit R-3 Cost Analysis							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys			C2277 Systems Engineering & Integration						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Eval											0.000	
Operational Test & Eval											0.000	
Tooling											0.000	
MAGTF SEI&C	CFFP	Logicon,Stafford, VA	5.602	3.725	10/00	0.000	10/01	2.780	10/02	1.966	14.073	14.073
MAGTF SEI&C	WR	MCTSSA, Cp Pndltn, CA	0.809	0.000		0.000		0.000		0.000	0.809	0.809
JINTACCS	C/CPFF	Logicon,Stafford, VA	3.167	0.895	10/00	1.530	10/01	1.544	10/02	Continuing	Continuing	
JINTACCS	WR	MCTSSA, Cp Pndltn, CA	0.158	0.106	10/00	0.150	10/01	0.200	10/02	Continuing	Continuing	
GBS	WR	MCTSSA, Cp Pndltn, CA	0.000	0.200	11/00	0.180	02/02	0.000		0.000	0.410	0.410
GBS	WR	MCOTEA, Quantico, VA	0.000	0.000		0.200	02/02	0.000		0.000	0.200	0.200
CCR	RCP	MCSC, Quantico, VA	1.082	0.004	02/01	0.264	TBD	0.299	TBD	Continuing	Continuing	
Subtotal T&E			10.818	4.930		2.324		4.823				
Remarks:												

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Exhibit R-3 Cost Analysis								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N /BA 7 Operational Sys Dev			0206313M Marine Corps Communication Sys			C2277 Systems Engineering & Integration						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Suppt											0.000	
Govt Engineering Suppt											0.000	
Program Management Suppt											0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
MAGTF SEI&C	C/FFP	Logicon, Stafford, VA	0.150	0.160	11/00	0.170	11/01	0.180	10/02	Continuing	Continuing	
Subtotal Management			0.000	0.160		0.170		0.180		0.000	0.330	
Remarks:												
Total Cost					10.084		13.244		9.912		Continuing	Continuing

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
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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 C2278 Air Defense Weapons Systems					
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	13.633	11.135	29.831	36.146	16.968	10.980	7.178	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. 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.
2. The Cooperative Engagement Capability (CEC) enables all 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 CEC 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. CEC 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.
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 (UAV's) 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.
4. 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.
5. The Low Attitude Air Defense (LAAD) Sustainment Program consists of various air defense platforms, simulators, and ground support equipment designed to provide air defense of vital areas in general or direct support of the Marine Air Ground Task Force (MAGTF), LAAD Sustainment comprises a number of configurations consisting of Marine Air Command and Control systems (MACCS) and Short Range Air Defense (SHORAD) assets integrated with a Remote Terminal Unit (RTU) and communications equipment.
6. 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.
7. 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.

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EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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 C2278 Air Defense Weapons Systems
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PROGRAM ACCOMPLISHMENTS AND PLANS

FY 2001 Accomplishments

- (U) \$ 2.026 CEC: Developed software: Interface Design Document (IDD) development for CAC2S and CLAWS interface to CEC.
- (U) \$ 1.450 CEC: Developed software: Concurrent development of alternate/advanced sensor networking technology interfaces (TCN).
- (U) \$ 0.627 CEC: Test and Evaluation: Developmental testing support.
- (U) \$ 0.251 CEC: Continued program management support.
- (U) \$ 0.047 CID: Tested and evaluated systems identified by the request for proposal (RFP)
- (U) \$ 0.868 CID: Continued Program Definition and Risk Reduction of RFP systems.
- (U) \$ 0.500 CID: Continued studies to investigate feasibility of using various fielded systems to fulfill CID requirements (add'l) mission areas.
- (U) \$ 1.013 CID: Continued program management support.
- (U) \$ 5.500 CLAWS: Developed Initial design and integration of two CLAWS Proof of Concept Vehicles for User Evaluation and Development Testing.
- (U) \$ 0.930 CLAWS: Program Management Support.
- (U) \$ 0.270 CLAWS: Systems Engineering and Technical Support.
- (U) \$ 0.151 External Hold

(U) Total \$ 13.633

FY 2002 Planned Program

- (U) \$ 0.121 CWAR: Initiate developmental test and evaluation.
- (U) \$ 0.147 CWAR: Initiate development of Engineer Design Model.
- (U) \$ 0.025 CWAR: Program management support.
- (U) \$ 0.191 SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Initiate developmental test and evaluation.
- (U) \$ 0.100 SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Initiate development of Engineer Design Model.
- (U) \$ 0.110 SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Program management support.
- (U) \$ 1.100 CEC: Continue Software development: IDD development for CAC2S and CLAWS interface to CEC.
- (U) \$ 0.622 CEC: Continue development of Engineer Design Model.
- (U) \$ 0.648 CEC: Continue Testing and Evaluation: Developmental testing support.
- (U) \$ 0.300 CEC: Continue program management support.
- (U) \$ 5.771 CLAWS: Finalize the development, design and integration issues related to the two Proof of Concept Vehicles. Continue to conduct Developmental Testing. Conduct CAIV trade-offs and design/build Pre-Production Model.
- (U) \$ 2.000 CLAWS: Continue program management support.

(U) Total \$ 11.135

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EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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 C2278 Air Defense Weapons Systems
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(U) FY 2003 Planned Program:

- (U) \$ 0.232 CWAR: Continue developmental test and evaluation.
- (U) \$ 0.100 CWAR: Continue Engineer Design Model.
- (U) \$ 0.025 CWAR: Continue program management support.
- (U) \$ 0.230 SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Continue developmental test and evaluation/risk reduction.
- (U) \$ 0.150 SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Continue Engineer Design Model.
- (U) \$ 0.110 SHORT/MEDIUM RANGE AIR DEFENSE RADAR: Continue program management support.
- (U) \$ 1.837 CEC: Continue software development: Finalization of Interface Design Document for CAC2S and CLAWS interfaces to CEC.
- (U) \$ 0.919 CEC: Testing and Evaluation: Certification of CAC2S and CLAWS interfaces to CEC.
- (U) \$ 8.720 CEC: Continue Engineer Development Model development: Purchase of items to finalize Engineer Design Model.
- (U) \$ 0.527 CEC: Continue program management support.
- (U) \$ 0.652 CID: Continue program management support.
- (U) \$ 0.435 CID: Continue requirements development.
- (U) \$ 0.413 CID: Engineering analysis of CID systems.
- (U) \$ 7.178 CLAWS: Complete build of Pre-Production Model and upgrade both Proof of Concept Vehicles to Pre-production Baselines. Conduct final Developmental Testing.
- (U) \$ 1.940 CLAWS: Continue program management support.
- (U) \$ 2.203 CLAWS: Developmental testing for live firings.
- (U) \$ 0.917 MRRS: Refinement of the ORD, Campaign Level Effectiveness Analysis, Analysis of Alternatives and Life Cycle Cost Estimate.
- (U) \$ 0.383 MRRS: Affordable Ground Base Radar
- (U) \$ 2.700 MRRS: Program management support.
- (U) \$ 0.160 LAAD SUSTAINMENT: Expeditionary Air Defense System (EADS) software and Stinger ground support development.

(U) Total \$ 29.831

(U) PROJECT CHANGE SUMMARY:

	FY2001	FY2002	FY2003
(U) FY 2002 President's Budget:	20.081	11.240	
(U) Adjustments from the President's Budget:			
(U) SBIR/STTR Transfer	-0.335		
(U) Execution Adjustment			
(U) Minor Affordability Adjustment		-0.105	
(U) Program Adjustment	-6.113		
(U) FY 2003 President's Budget	13.633	11.135	29.831

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 2002
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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 C2278 Air Defense Weapons Systems
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(U) B. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
(U) PMC LINE BLI 300600 LAAD SUS	0.000	0.000	0.184	2.119	2.653	4.658	4.005 Continuing	Continuing
(U) PMC LINE BLI 462000 CWAR (EADS)	1.500	0.425	1.178	0.490	0.500	0.000	0.000 0	4.093
(U) PMC LINE BLI 464000 CEC	0.000	0.000	0.000	0.000	12.055	23.422	4.932 0	40.409
(U) PMC LINE BLI 464000 CLAWS	0.000	0.000	0.000	6.506	35.293	19.271	30.267 0	91.337
(U) PMC LINE BLI 305000 CLAWS MISSILES	0.000	0.000	0.000	24.456	24.419	24.361	83.501 0	156.737
(U) PMC LINE BLI 464000 SH/MED RANGE AIR	0.000	0.000	0.986	1.121	0.970	0.223	0.232 Continuing	Continuing
(U) PMC LINE BLI 464000 MRRS	0.000	0.000	0.000	0.000	0.000	0.000	44.389 Continuing	Continuing

(U) Related RDT&E:

PE 0603216C (Ballistic Missile Defense Organization, Theater Missile Defense)

(U) D. ACQUISITION STRATEGY:

(U) CLAWS: Competitively awarded fixed price contract for design and development. Additionally, there are firm fixed price production options through FY07.

(U) CEC: The USMC's CEC acquisition strategy is to participate in the USN's Program procurement and testing, making necessary modifications to support the Marine Corps' requirement. The USMC CEC project will be utilizing existing and future USN CEC contracts.

(U) LAAD SUSTAINMENT: The LAAD Sustainment acquisition strategy will utilize the CLAWS contract for efforts dealing with the expeditionary air defense system. Efforts include software fixes, upgrades, and engineering services.

(U) CID: This effort will continue the management of the CID program as it transitions to MCTIS (Mounted Cooperative Target Identification System) in FY04. It will allow additional engineering analysis of the Army's miniaturized BCIS and competing foreign systems as possible solutions for MCTIS.

(U) MRRS: The MRRS will build off of the Navy ONR Affordable Ground Based Radar Science and Technology program that will demonstrate advanced mobility combined with medium range and high resolution.

(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) 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.

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DATE:

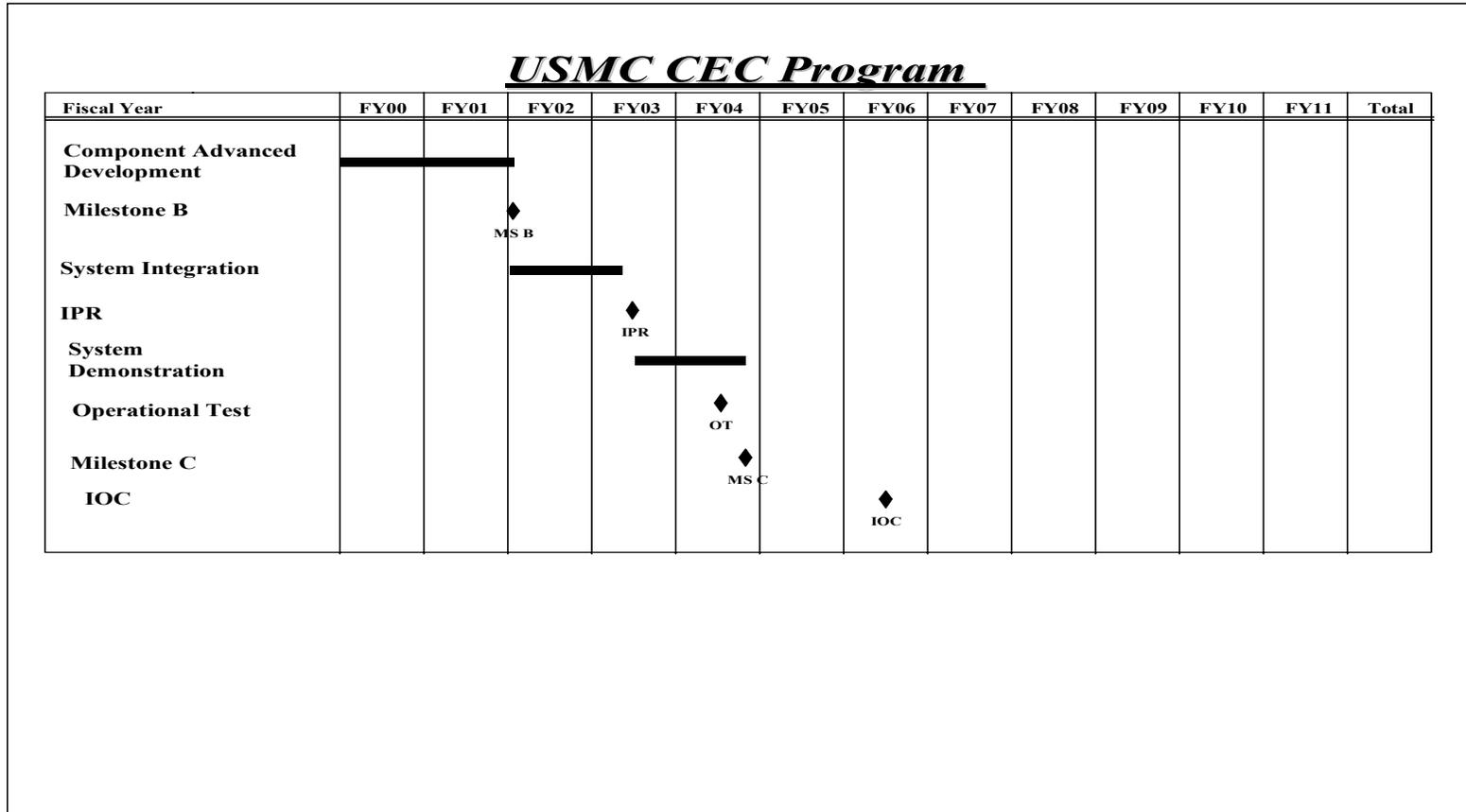
February 2002

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. SCHEDULE PROFILE:



Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N

(U) PMC, BLI# 464000 CEC

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007 To Compl</u>	<u>Total Cost</u>
(U) RDT&E,N	4.354	2.670	12.003	13.506	3.225	2.500	1.500	39.758
(U) PMC, BLI# 464000 CEC	0.000	0.000	0.000	0.000	12.055	23.422	4.932	40.409

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DATE:

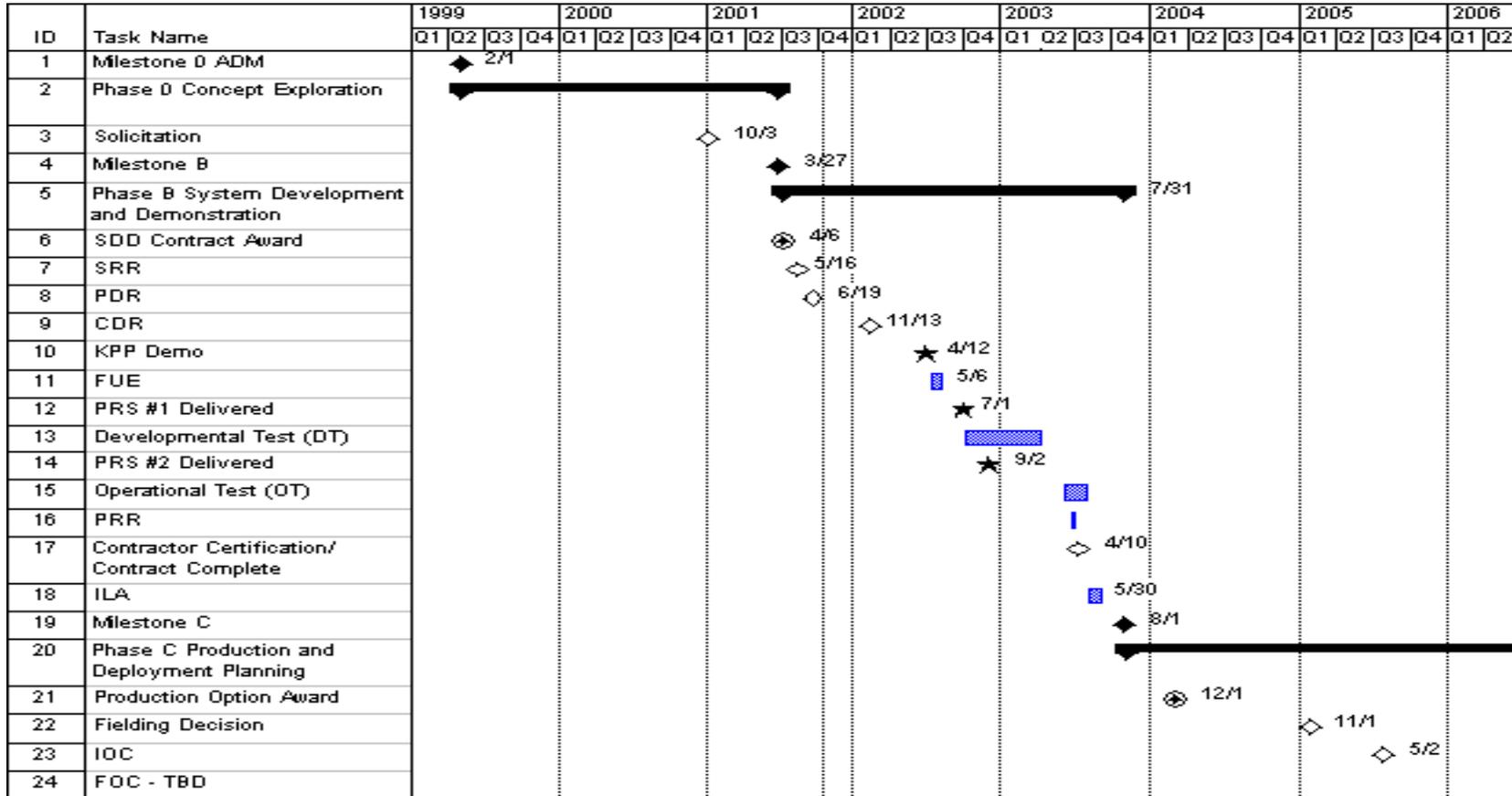
February 2002

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

CLAWS



Program Funding Summary

(APPN, BLI #, NOMEN)

	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
(U) RDT&E,N	6.700	7.771	11.321	14.556	4.130	0.902	0.924	0.000	46.304
(U) PMC BLI# 464000 CLAWS	0.000	0.000	0.000	6.506	35.293	19.271	30.267	0.000	91.337
(U) PMC BLI# 305000 CLAWS MISSILES	0.000	0.000	0.000	24.456	24.419	24.361	83.501	0.000	156.737

R-1 SHOPPING LIST - Item No. 194

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Exhibit R-2a, RDTE,N Project Justification

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Exhibit R-3 Cost Analysis							DATE: February 2002					
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 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev											0.000	
Ancillary Hardware Dev											0.000	
Systems Engineering											0.000	
CWAR	MIPR	MCLB Barstow, CA	0.015	0.000		0.000		0.000		0.000	0.015	0.015
CWAR	MIPR	NSWC, Crane, IN	0.000	0.000		0.268	01/02	0.322	01/03	Continuing	Continuing	
CWAR	MIPR	MILCOM, RA, AL	2.390	0.000		0.000		0.000		0.000	2.390	2.390
CWAR	WR	MCTSSA, Cp Pnd,CA	0.029	0.000		0.000		0.000		0.000	0.029	0.029
S/M Range Air Defense Rdr	MIPR	NSWC, Crane, IN	0.000	0.000		0.291	01/02	0.350	01/03	Continuing	Continuing	
CID	WR	USACOM, Norfolk, VA	0.750	0.000		0.000		0.000		0.000	0.750	0.750
CID	RCP	MCSC, Quantico, VA	0.400	0.250	09/01	0.000		0.000		0.000	0.650	0.650
CID	RCP	NAWC, China Lake	0.000	0.718	01/01	0.000		0.000		0.000	0.718	0.718
CID	RCP	MICOM, Huntsville, AL	0.000	0.150	02/01	0.000		0.000		0.000	0.150	0.150
CID	RCP	CECOM, Ft Monmouth	0.000	0.250	09/01	0.000		0.000		0.000	0.250	0.250
CEC	RCP	JHU/APL	1.221	0.088	06/01	0.000		0.000		Continuing	Continuing	
CEC	RCP	Sensis, Syracuse, NY	1.104	0.762	06/01	0.300	01/02	0.000		Continuing	Continuing	
CEC	WR	NSWC, Crane, IN	1.066	0.870	11/00	0.665	01/02	9.722	TBD	Continuing	Continuing	
CEC	RCP	Raytheon, St Ptrsbrg, FL	0.244	0.163	06/01	0.135	07/02	0.500	01/03	Continuing	Continuing	
CEC	WR	Solipsys, Laurel, MD	0.749	0.426	11/00	0.300	01/02	1.000	TBD	Continuing	Continuing	
CLAWS	WR	NSWC,	0.000	0.158	03/01	0.000		0.000			0.158	0.158
CLAWS	WR	MCSC,	0.000	0.043	06/01	0.000		0.000			0.043	0.043
CLAWS	WR	MCTSSA,	0.000	0.007	07/01	0.000		0.000			0.007	0.007
CLAWS	RCP	MCSC,	0.000	0.011	02/01	0.000		0.000			0.011	0.011
CLAWS	RCP	USArmy	0.000	0.148	09/01	0.000		0.000			0.148	0.134
CLAWS	RCP	MICOM,	0.000	0.120	09/01	0.000		0.000			0.120	0.120
CLAWS	RFP	Raytheon, Bedford, MA	0.000	5.500	04/01	5.771	TBD	7.178	01/03	Continuing	Continuing	
CLAWS	RCP	SSDC, Huntsville, AL	0.000	0.250	08/01	0.000		0.000				0.250
MRRS	RCP	TRW	0.000	0.000		0.000		0.267	01/03	Continuing	Continuing	
MRRS	RCP	TRW	0.000	0.000		0.000		0.200	01/03	Continuing	Continuing	
MRRS	RCP	PA&E	0.000	0.000		0.000		0.350	01/03		0.350	0.350
MRRS	WR	MCCDC	0.000	0.000		0.000		0.100	01/03		0.100	0.100
MRRS	WR	NSWC, Dahlgren, VA	0.000	0.000		0.000		0.383	01/03	Continuing	Continuing	
MRRS	RCP	TBD	0.000	0.000		0.000		1.950	01/03	Continuing	Continuing	
LAAD SUSTAINMENT	RCP	Raytheon, Bedford, MA	0.000	0.000		0.000		0.060	01/03	Continuing	Continuing	
LAAD SUSTAINMENT	TBD	TBD	0.000	0.000		0.000		0.100	01/03	Continuing	Continuing	
Subtotal Product Dev			7.968	9.914		7.730		22.482		Continuing	Continuing	
Remarks:												

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Exhibit R-3, Project Cost Analysis
(Exhibit R-3, page 68 of 70)

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CLASSIFICATION:

Exhibit R-3 Cost Analysis							DATE: February 2002					
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 System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	Total Cost	Target Value of Contract
Development Support Equip											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
SH/Med Rng Air Def Radar	RCP	MCSC, Quantico, VA	0.000	0.000		0.110	01/02	0.140	01/03	Continuing	Continuing	
CWAR	RCP	MCSC, Quantico, VA	0.000	0.000		0.025	01/02	0.035	01/03	Continuing	Continuing	
CID	RCP	MCSC, Quantico, VA	0.450	0.000		0.000		0.202	01/03	0.000	0.652	0.652
CID	WR	MCSC, Quantico, VA	0.050	0.103	01/01	0.000		0.000		0.000	0.103	0.153
CID	WR	NSWC, Crane, IN	0.000	0.150	11/00	0.000		0.413	11/02	0.000	0.563	0.563
CID	RCP	GSA, Bremerton, WA	0.000	0.760	01/01	0.000		0.435	10/02	0.000	1.195	1.195
CEC	WR	Jaycor, FtWorth, TX	0.043	0.000		0.000		0.000		0.000	0.043	0.043
CEC	WR	MCLB Albany, GA	0.015	0.005	10/00	0.005	01/02	0.010	12/02	Continuing	Continuing	
CEC	MIPR	STA, FtWorth, TX	0.157	0.275	01/01	0.325	02/02	0.177	03/03	Continuing	Continuing	
CEC	WR	1st MAW	0.000	0.000		0.000		0.010	01/03		0.010	0.010
CEC	RCP	Lockheed Martin	0.000	0.430	02/01	0.000		0.000		0.000	0.430	0.430
CLAWS	RFP	MCSC, Quantico, VA		0.000	06/01	2.000	01/02	2.843	01/03	Continuing	Continuing	
Subtotal Support			0.715	1.723		2.465		4.265		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Eval											0.000	
Operational Test & Eval											0.000	
Tooling											0.000	
CID	WR	NSWC China Lake, CA	0.400	0.047	11/00	0.000		0.000		0.000	0.447	0.447
CEC	WR	Port Hueneme, CA	0.000	0.018	04/01	0.018	05/02	0.018	05/03	Continuing	Continuing	
CEC	WR	MCTSSA, Cp Pndltn, CA	0.010	0.005	01/01	0.005	01/02	0.035	01/03	Continuing	Continuing	
CEC	WR	MACS24 Damneck, VA	0.010	0.015	01/01	0.015	01/02	0.015	01/03	Continuing	Continuing	
CEC	WR	MAWS/Other	0.000	0.112	06/01	0.000		0.000		Continuing	Continuing	
CEC	MIPR	DCMS, Syracuse, NY	0.020	0.002	03/01	0.002	03/02	0.002	03/03	Continuing	Continuing	
CEC	WR	NSWC, Dahlgren, VA	0.000	0.540	12/00	0.300	12/01	0.227	12/02	Continuing	Continuing	
CEC	WR	NavAir, Pax River, MD	0.000	0.086	02/01	0.000		0.000		0.000	0.086	0.086
CLAWS	WR	White Sands, Tuscon, AZ	0.000	0.000		0.000		0.800	01/03	0.000	0.800	0.800
Subtotal T&E			0.440	0.825		0.340		1.097		Continuing	Continuing	
Remarks:												

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CLASSIFICATION:

Exhibit R-3 Cost Analysis							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev			PROGRAM ELEMENT 0206313M Marine Corps Communication Sys				PROJECT NUMBER AND NAME C2278 Air Defense Weapons Systems					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	FY 03 Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Suppt											0.000	
Govt Engineering Suppt											0.000	
Program Management Suppt											0.000	
Travel											0.000	
Labor (Research Personnel)											0.000	
Overhead											0.000	
CEC	RCP	Logicon, Stafford, VA	0.176	0.416	10/00	0.450	01/02	0.287	01/03	Continuing	Continuing	
CEC	RCP	MCSC	0.000	0.034	01/01	0.040	01/02	0.000		Continuing	Continuing	
CEC	RCP	EG&G PAHL	0.000	0.050	11/00	0.050	01/02	0.000		Continuing	Continuing	
CEC	RCP	MCSC	0.000	0.057	01/01	0.060	01/02	0.000		Continuing	Continuing	
CID	RCP	Logicon, Stafford, VA	0.000	0.000		0.000		0.450	01/03	0.000	0.000	
MRRS	WR	MCSC	0.000	0.000		0.000		0.100	01/03	Continuing	Continuing	
MRRS	RCP	Logicon, Stafford, VA	0.000	0.000		0.000		0.650	01/03	Continuing	Continuing	
CLAWS	RCP	Logicon, Stafford, VA	0.000	0.463	11/00	0.000		0.500	01/03	Continuing	Continuing	
		External Hold		0.151								
Subtotal Management			0.176	1.171		0.600		1.987		Continuing	Continuing	
Remarks:												
Total Cost			9.299	13.633		11.135		29.831		Continuing	Continuing	

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EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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 C2315 Training Devices/Simulators
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COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	10.496	13.548	6.145	4.464	3.208	1.642	1.652	Cont	Cont

RDT&E Articles Qty									
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(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), 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 into the Joint Towed Artillery Digitalization System (TADS). 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.

PROGRAM ACCOMPLISHMENTS AND PLANS

FY 2001 Accomplishments

- (U) \$ 3.526 JSIMS: Continued to provide technical expertise to the US Army, US Navy and US Air Force in the development of USMC specific requirements. Continued to participate in Federation Integration Events 1-3 and Functional Assessment 1.
- (U) \$ 0.420 JSIMS: Began VRM 2.0 software development.
- (U) \$ 0.491 JSIMS: Continued support in the development of USMC notional hardware configurations and participated in the Enterprise development of USMC C4I interface requirements. Continued technical expertise to test planning group for build 1 demonstration.
- (U) \$ 3.082 CACCTUS: Plan, develop, integrate and test software interface with simulation and Combined Arms Staff Trainer (CAST) .
- (U) \$ 2.501 CACCTUS: Training analysis and application; documentation of results.
- (U) \$ 0.476 CACCTUS: Procure NDI hardware for prototype development and integration. Studying and validating notional configurations and enhancements.

(U) Total \$ 10.496

FY 2002 Planned Program

- (U) \$ 4.857 JSIMS: Continue to 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.
- (U) \$ 0.612 JSIMS: Complete Version Release Milestone (VRM) 1.0 and begin participation in MOT&E.
- (U) \$ 0.716 JSIMS: Continue Verification, Validation, and Accreditation of the development of VRM 2.0 software.
- (U) \$ 1.836 CLASS: Initial planning and software development for CLASS deployable versions (3).
- (U) \$ 0.427 CLASS: Begin test and evaluation prototypes for functionality.
- (U) \$ 5.100 CACCTUS: Continue all RDTE efforts begun in FY01 as indicated in Planned Program above.

(U) Total \$ 13.548

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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 C2315 Training Devices/Simulators
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(U) FY 2003 Planned Program:

- (U) \$ 4.439 JSIMS: Continue to provide technical expertise to the US Army, US Navy and US Air Force in the development of USMC specific requirements.
- (U) \$ 0.521 JSIMS: Complete Verification, Validation, and Accreditation of the development of VRM 2.0 software.
- (U) \$ 0.612 JSIMS: Continue to participate in MOT&E and the Initial Operational Capability (IOC) event. Begin VRM 3.0 software development.
- (U) \$ 0.573 CLASS: Continuation of system design and software development for CLASS subsystems.

(U) Total \$ 6.145

(U) PROJECT CHANGE SUMMARY:

	FY2001	FY2002	FY2003
(U) FY 2002 President's Budget:	10.714	8.599	
(U) Adjustments from the President's Budget:			
(U) SBIR/STTR Transfer	-0.275		
(U) Execution Adjustment			
(U) Minor Affordability Adjustment		-0.151	
(U) Program Adjustment	0.057	5.100	
(U) FY 2003 President's Budget:	10.496	13.548	6.145

CHANGE SUMMARY EXPLANATION:

- (U) Funding: See Above.
- (U) Schedule: Not Applicable.
- (U) Technical: Not Applicable.

(U) B. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
(U) PMC, BLI# 653200 Trng Dev/Sims	23.030	30.176	18.651	21.457	21.906	17.102	10.987	Continuing	Continuing

(U) Related RDT&E: Not Applicable

(U) C. ACQUISITION STRATEGY:

- (U) **JSIMS** - Competitively awarded Level of Effort (LOE) contract followed by Cost Plus Fixed Fee (CPFF) contract.
- (U) **CLASS** - Currently in the Concept Exploration Phase. A competitively awarded Cost Plus Fixed Fee (CPFF) contract will be utilized to do engineering, manufacturing and development.
- (U) **CACCTUS** - Competitive cost plus fixed fee contract (CPFF).

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

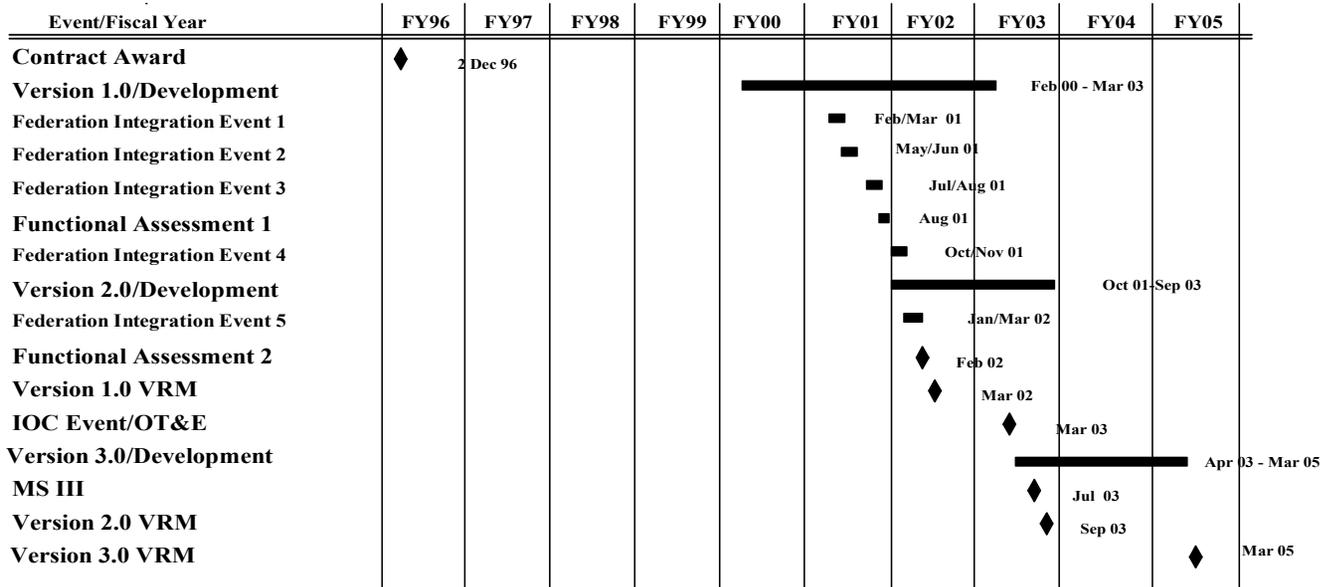
February 2002

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
C2315 Training Devices/Simulators

JSIMS PROGRAM SCHEDULE



Other Program Funding Summary

(APPN, BLI #, NOMEN)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
(U) RDT&E,N	4.437	6.185	5.572	4.464	3.208	1.642	1.652	Continuing	Continuing
(U) PMC, BLI# 653200 Trng Dev/Sims	0.000	0.000	1.506	1.552	1.497	1.497	1.492	Continuing	Continuing

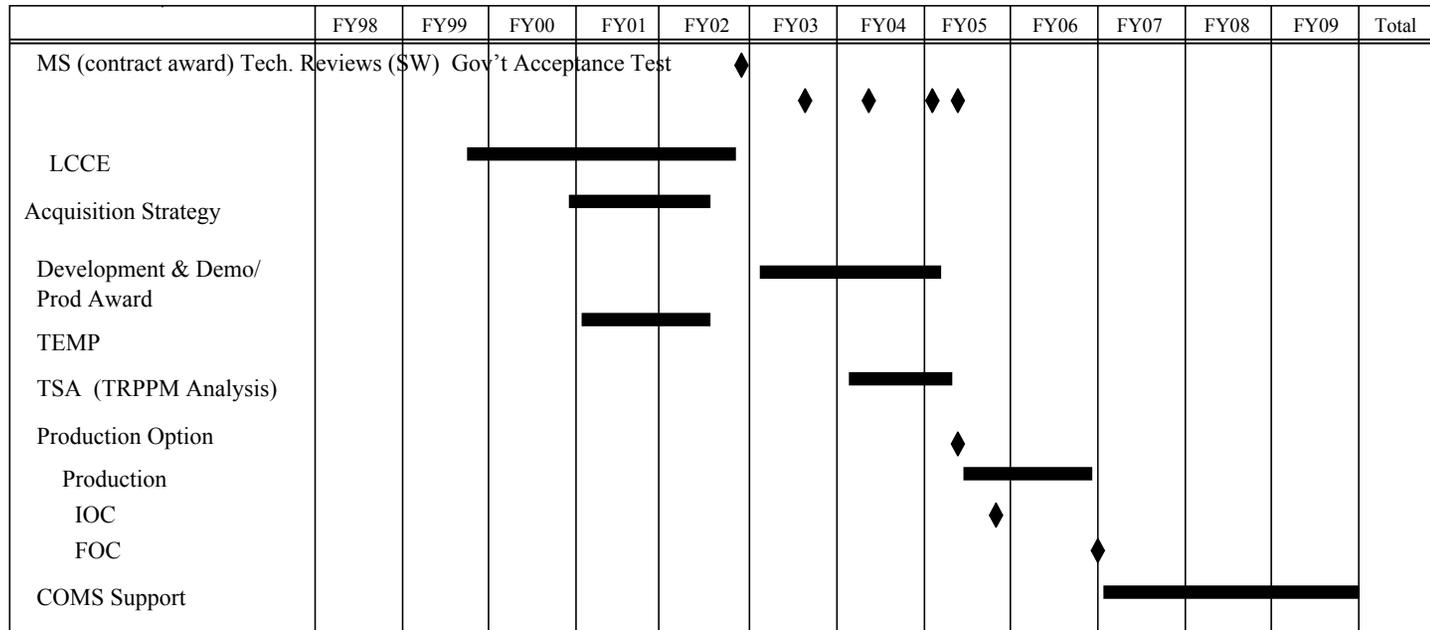
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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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 C2315 Training Devices/Simulators
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CLASS PROGRAM SCHEDULE



Other Program Funding Summary	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
(APPN, BLI #, NOMEN)									
(U) RDT&E,N	0.000	2.263	0.573	0.000	0.000	0.000	0.000	0.000	2.836
(U) PMC, BLI# 653200 Trng Dev/Sims	0.000	0.000	0.000	5.361	6.813	8.215	0.000	0.000	20.389

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Exhibit R-3 Cost Analysis						DATE: February 2002						
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 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev											0.000	
Ancillary Hardware Dev											0.000	
Systems Engineering											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Software Development	RCP	SPAWAR, SD, CA	10.465	2.200	2Q/01	0.830	1Q/02	0.830	1Q/03	Continuing	Continuing	
Software Development	MIPR	STRICOM, ORL, FL		0.850	3Q/01	1.000	2Q/02				1.850	
Software Development	WR	SPAWAR, SD, CA	2.211	0.710	1Q/01	0.250	1Q/02	0.250	1Q/03	Continuing	Continuing	
Software Development	RCP	MCSC, QUANTICO, VA				1.849	1Q/02	2.000	1Q/03	Continuing	Continuing	
Software Development	TBD	MCSC, QUANTICO, VA				2.113	2Q/02	0.573	1Q/03	Continuing	Continuing	
											0.000	
											0.000	
Subtotal Product Dev			12.676	3.760		6.042		3.653		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support Equip											0.000	
Software Development	RCP	MTS		5.000	4Q/01	3.950	3Q/02				8.950	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
Subtotal Support				5.000		3.950					8.950	
Remarks:												

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Exhibit R-3 Cost Analysis							DATE: February 2002					
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 System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Eval	MIPR	CECOM, FT M ,NJ	2.729	0.365	1Q/01	0.200	1Q/02	0.200	1Q/03	Continuing	Continuing	
Operational Test & Eval											0.000	
Tooling											0.000	
											0.000	
Subtotal T&E			2.729	0.365		0.200		0.200		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Engineering Suppt	WR	NAWC, ORLANDO, FL				0.450	3Q/02				0.450	
Govt Engineering Suppt	WR	NAWC, ORLANDO, FL		1.059	4Q/01	0.150	3Q/02				1.209	
Program Management Suppt	WR	NAWC, ORLANDO, FL		0.297	2Q/01	0.195	1Q/02	0.195	1Q/02	Continuing	Continuing	
Program Management Suppt	WR	USMC		0.015	4Q/01	1.961	1Q/02	2.097	1Q/03	Continuing	Continuing	
Travel											0.000	
Labor (Research Personnel)	WR	NAWC, ORLANDO, FL				0.600					0.600	
Overhead											0.000	
Subtotal Management				1.371		3.356		2.292		Continuing	Continuing	
Remarks:												
Total Cost				10.496		13.548		6.145		Continuing	Continuing	

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002		
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			C2510 MAGTF CSSE S&E					
COST (\$ in Millions)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	1.071	4.558	4.867	0.576	0.581	0.591	0.602	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 CINC'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. 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 deploying units 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, scalable, 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 CINC's 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 CINC 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.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
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	C2510 MAGTF CSSE S&E
PROGRAM ACCOMPLISHMENTS AND PLANS		
FY 2001 Accomplishments		
• (U) \$	0.477 ATLASS PIP: Began the development of implementation and support plans.	
• (U) \$	0.140 TC-AIMS II: Conducted a Sustainment Calculation Module.	
• (U) \$	0.054 TC-AIMS II: Funded Logistics Working Group.	
• (U) \$	0.400 SCN REPROGRAMMING: Funded SCN proprity workload.	
(U) Total \$	1.071	
FY 2002 Planned Program		
• (U) \$	2.186 ATLASS PIP: Begin design and develop ATLASS PIP strategies and continue development of implementation and support plans.	
• (U) \$	0.725 ATLASS PIP: Evaluate and begin web-enabling technology for ATLASS PIP.	
• (U) \$	0.725 ATLASS PIP: Begin incremental software development.	
• (U) \$	0.286 TC-AIMS II: Conduct Operational Test and Evaluation in conjunction with the Milestone C decision.	
• (U) \$	0.636 MAGTF CSSE & SE: Begin design & development of web-enabling technologies, messaging backbone, and integration with air/ship/rail load and joint planning & execution tools. Begin efforts to migrate legacy system data and interfaces to the Shared Data Enviornment.	
(U) Total \$	4.558	
(U) FY 2003 Planned Program:		
• (U) \$	2.227 ATLASS PIP: Complete design; web enabling, and development of ATLASS PIP.	
• (U) \$	1.800 ATLASS PIP: Continue incremental software development and conduct software testing.	
• (U) \$	0.539 MAGTF CSSE & SE: Continue design & development of web-enabling technologies, messaging backbone, and integration with air/ship/rail load and joint planning & execution tools. Begin efforts to migrate legacy system data and interfaces to the Shared Data Environment.	
• (U) \$	0.301 TC-AIMS II: Conduct service specific software enhancement to TC-AIMS II to provide interface capability with USMC systems.	
(U) Total \$	4.867	

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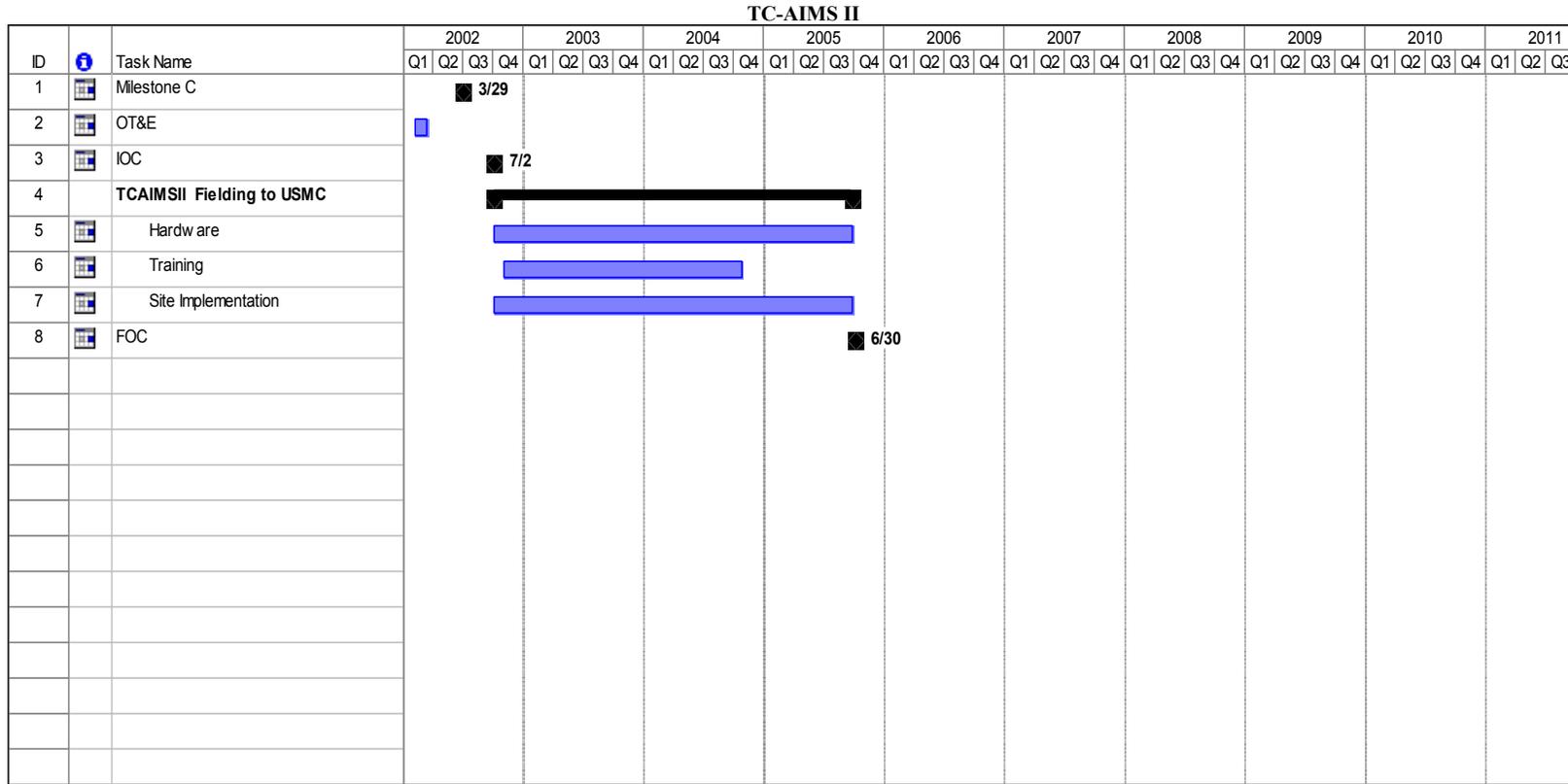
EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N /BA-7 Operational Sys Dev		0206313M Marine Corps Communications Sys			C2510 MAGTF CSSE S&E				
(U) PROJECT CHANGE SUMMARY:									
		FY2001	FY2002	FY2003					
(U) FY 2002 President's Budget:		1.064	4.602						
(U) Adjustments from the President's Budget:									
(U) SBIR/STTR Transfer		-0.007							
(U) Execution Adjustment		-0.071							
(U) Minor Affordability Adjustment			-0.044						
(U) Program Adjustment		0.085							
(U) FY 2003 President's Budget:		1.071	4.558	4.867					
CHANGE SUMMARY EXPLANATION:									
(U) Funding: See Above.									
(U) Schedule: Not Applicable.									
(U) Technical: Not Applicable.									
(U) B. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 To Compl	Total Cost
PMC BLI 464100 ATLASS PIP		0.000	0.000	5.210	5.560	5.102	4.477	0.000 Continuing	Continuing
PMC BLI 464100 TC-AIMS II		2.820	2.693	5.343	0.000	0.000	0.000	0.000	10.856
(U) Related RDT&E: Not Applicable.									
(U) C. ACQUISITION STRATEGY:									
ATLASS PIP: The current acquisition strategy is to stay with SSC Chesapeake, the developer for ATLASS II+ for our 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.									

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EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2002
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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	C2510 MAGTF CSSE S&E



<u>Program Funding Summary</u>	<u>FY 2001</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>To Compl</u>	<u>Total Cost</u>
<u>(APPN, BLI #, NOMEN)</u>									
(U) RDT&E,N	0.194	0.286	0.301	0.310	0.313	0.316	0.319	Cont	Cont
(U) PMC BLI# 464100 TC-AIMS II	2.820	2.693	5.343					0.000	10.856

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Exhibit R-3 Cost Analysis							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev			PROGRAM ELEMENT 0206313M Marine Corps Communications Sys				PROJECT NUMBER AND NAME C2510 MAGTF CSSE S&E					
Cost Categories (Tailor to WBS, or Sys/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev											0.000	
Ancillary Hardware Dev											0.000	
Systems Engineering											0.000	
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
ATLASS PIP	WR	SSC Chesapeake	0.966	0.477	01/01	3.136	12/01	3.527	11/02	Continuing	Continuing	
ATLASS PIP	RCP	MCSC, Quantico, VA				0.500	12/01	0.500	11/02	Continuing	Continuing	
TC-AIMS II	C/FFP	MCSC, Quantico, VA						0.301	01/03	0.000	0.301	
MAGTF CSSE&SE	C/FFP	Various				0.636	02/02	0.539	01/03	Continuing	Continuing	
SCN Reprogramming	TBD	TBD		0.400						0.000	0.400	
SBIR				0.000								
Subtotal Product Dev			0.966	0.877		4.272		4.867		Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support Equip											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
SCN REPROGRAMMING												
Subtotal Support			0.000	0.000		0.000				Continuing	Continuing	
Remarks:												
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Eval											0.000	
Operational Test & Eval											0.000	
Tooling											0.000	
TC-AIMS		MCOTE A, Quantico, VA				0.286	01/02				0.286	
Subtotal T&E						0.286				Continuing	Continuing	
Remarks:												

R-1 SHOPPING LIST - Item No. 194

Exhibit R-3, Project Cost Analysis

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(Exhibit R-3, page 11 of 12)

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Exhibit R-3 Cost Analysis							DATE: February 2002					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA 7 Operational Sys Dev			PROGRAM ELEMENT 0206313M Marine Corps Communications Sys				PROJECT NUMBER AND NAME C2510 MAGTF CSSE S&E					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Contractor Eng Suppt												0.000
Govt Engineering Suppt												0.000
Program Mngmnt Suppt												0.000
Travel												0.000
Labor (Research Personnel)												0.000
TC-AIMS II	WR	Various	0.071	0.194	Var					Continuing	Continuing	
Overhead												0.000
Subtotal Management			0.071	0.194		0.000				0.000	0.265	
Remarks:												
Total Cost			1.037	1.071		4.558		4.867		Continuing	Continuing	