Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy										DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*							
COST ($ in Millions)	**FY 2009 Actual**	**FY 2010 Estimate**	**FY 2011 Base Estimate**	**FY 2011 OCO Estimate**	**FY 2011 Total Estimate**	**FY 2012 Estimate**	**FY 2013 Estimate**	**FY 2014 Estimate**	**FY 2015 Estimate**	**Cost To Complete**	**Total Cost**
Total Program Element	0.000	29.776	20.316	0.000	20.316	17.705	18.374	17.704	17.456	Continuing	Continuing
2272: *Intel Command and Control (C2) Sys*	0.000	29.776	20.316	0.000	20.316	17.705	18.374	17.704	17.456	Continuing	Continuing

Note

* Funds for Project C2272 were realigned to PE 0206625M in FY 2010. Prior to that, they were carried in PE 0206313M.
* Topographic Production Capability(TPC),and Tactical Exploitation Group(TEG) have merged into DCGS-MC. Funding for these efforts under PE 0206625M has been realigned to DCGS-MC PE 0305208M effective FY 2011.

A. Mission Description and Budget Item Justification

This Program Element (PE) includes funds for Intelligence Command and Control (C2) which 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 collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination.

B. Program Change Summary ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	0.000	30.167	0.000	0.000	0.000
Current President's Budget	0.000	29.776	20.316	0.000	20.316
Total Adjustments	0.000	-0.391	20.316	0.000	20.316
• Congressional General Reductions		-0.124			
• Congressional Directed Reductions		-0.267			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Program Adjustments	0.000	0.000	20.316	0.000	20.316

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Change Summary Explanation

FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
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COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
2272: *Intel Command and Control (C2) Sys*	0.000	29.776	20.316	0.000	20.316	17.705	18.374	17.704	17.456	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

(U) Intelligence Command and Control (C2) supports the employment of reconnaissance, surveillance, and target acquisition resources and the timely planning and processing of all-source intelligence. It ensures that all-source tactical intelligence is tailored to meet specific mission requirements. The systems below collect and convert raw intelligence data on the battlefield into processed information and deliver the processed products to the Intelligence Analysis Systems (IAS) for analysis and dissemination.

Global Command and Control System Integrated Imagery and Intelligence (GCCS I3) is a joint program that is designed to enhance the operational Commander's situation awareness and track management through the use of a standard set of integrated, linked tools and services that maximize commonality and interoperability across the tactical theater, and national communities. GCCS-I3 operates in joint and service specific battlespace and is interoperable, transportable, and compliant with the DoD mandated Common Operating Environment (COE). FY 2011 RDTE funds support the development of GCCS-I3 4.x software enhancements and USMC Intelligence systems interoperability testing and certification program with the Joint Interoperability Test Command(JITC).

Distributed Common Ground System-Marine Corps (DCGS - MC) - formerly known as Distributed Common Ground/Surface-Integration (DCGS-I), is a collection of Service Systems that will contribute to joint and combined warfighter needs for ISR support, with the Global Information Grid (GIG) providing unconstrained communications circa 2012 to support the Department of Defense (DoD) Intelligence, Surevillance and Reconnassiance (ISR) Enterprise end-state. The DCGS Integrated Backbone (DIB) is the architecture that will tie the Service DCGS systems together into one Family of Systems (FOS). The DIB will provide the tools, standards, architecture, and documentation for the DCGS community to achieve a Multi-Intelligence (Multi-INT) (e.g. Imagery Intelligence (IMINT), Signals Intelligence (SIGINT), Measurement and Signature Intelligence (MASINT), Counterintelligence/Human Intelligence (CI/HUMINT)), network centric environment with the interoperability to afford individual nodes' access to the information needed to execute their respective missions to include Irregular Warfare. The Marine Corps will conduct DIB integration reseach and development to meet a congressionally mandated implementation deadline. DCGS funding has been realigned to new PE 0305208M effective FY 2011.

TROJAN SPIRIT II - is an SHF multi-band satellite communications terminal, available in either HMMWV-mounted or transit case configuration, that provides dedicated tactical communications capability at the TS/SCI and Secret Collateral levels to USMC intelligence units. TROJAN SPIRIT terminals provide connectivity into JWICSs, NSANET and SIPRNET via the TROJAN Network Control Center.

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Technical Control Analysis Center (TCAC), consisting of the AN/UYQ-83 TCAC Remote Analysis Workstation (RAWS), AN/MYQ-9 TCAC Transportable Workstation, Multi-Level Security (MLS) and One Roof system, is the focal point of Radio Battalions (RADBN) , Marine Corps Special Operations Command (MARSOC), and Fixed Wing Marine Electronic Attack Squadron (VMAQ) Signals Intelligence (SIGINT) operations. The TCAC automatically collects, stores, retrieves and plays back digital voice signals; fuses and analyzes SIGINT data from tactical, theater and national collectors and dtatbases for dissemination to tactical commanders. TCAC provides SIGINT analysis applications to deployedable MAGTF units capable of directing and managing the technical and operational functions of other RADBN SIGINT/EW assets. The TCAC provides termination of national, theater and tactical data networks for data exchange with the tactical SIGINT/EW assets, the Intelligence Analysis System (IAS), national databases, and provided USMC tactical SIGINT collection and analytical dtat into the Real-Time Regional Gateway (RTRG) and Distributed Common Ground System (DCGS).
Joint Surveillance Target Attack Radar (JSTARS) connectivity program will research and integrate a client software connectivity solution 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. Additionally, the Marine Corps will continue future MTI, CDL and MTI sensor capabilities research and development.

Tactical Remote Sensor System (TRSS-PIP) - TRSS is a suite of hand emplaced and air-delivered unattended sensors, ground relays, and sensor monitoring stations, which are used by the Intelligence Battalions, Ground Sensor Platoons (GSPs). It provides the MEF/MAGTF Commander with an organic capability to conduct unattended, all-weather, semi-covert, ground surveillance of distant areas within his Area of Operations (AO). Through the use of seismic, acoustic, magnetic, infra-red, and imaging sensors, this suite provides an additional surveillance capability of personnel and/or vehicular activity, during tactical pre-assault, assault and post assault operations. TRSS covers gaps in the overall intelligence collection effort and reduces the requirement to employ Marines behind enemy lines for extended periods of time.

Team Portable Collection System - Multi-Platform Capable (TPCS-MPC) - is a semi-automated, man/team portable system providing intercept, collection, direction-finding, reporting and collection management to MAGTF commander. It provides special signals intercept, and DF capability for each system and is modular, lightweight and team transportable. The next upgrades will be the multi-platform capability and will allow the system to exploit information from more technically advanced target sets and will provide the MAGTF commander with a modular and scalable carry on/carry off suite of equipment.
Wide Field of View Persistent Surveillance (WFVPS) (formerly Angel Fire) is a capability that supports persistent Inelligence, Surveillance and Reconnaissance (ISR), Improvised Explosive Device (IED) mitigation, and actionable intelligence in urban and other operations (e.g. disaster relief, security, etc). It delivers broad area, near real time, geo-registered imagery down to the tactical level of execution. Consisting of airborne and ground components such as the Airborne payload consists of an imager sensor (currently Electro-Optical (EO), on-board processors, and an air-to-ground communication link. Ground distribution network consist of the ground receive station, servers, storage and viewer client stations. AF is hosted on manned platforms, currently the King Air A-90p pilots fly the plane while the sensors can be controlled from the ground through autonomous software. The USMC objective EFVPS system will reside on an UAS.

MAGTF Secondary Imagery Dissemination System (MSIDS) is the only ground prospective Family of Systems (FoS) that provides organic tactical digital imagery collection, transmission and receiving capability to the MAGTF Commander. MSIDS is comprised of components necessary to enable Marines to capture, manipulate,

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annotate, transmit or receive images in Near Real Time (NRT), internally with subordinate commands that are widely separated throughout the area of operations and externally with higher adjacent commands. MSIDS capability resides with the MAGTF G/S-2 sections and Ground Reconnaissance Battalions, Light Armored Reconnaissance Battalions, Infantry Battalion Scout Sniper Platoons and Marine Special Operations Command. The MSIDS FoS extends the digital imaging capability to all echelons within the MEF, down to and including battalions and squadrons. Captured images are capable of being forwarded throughout the MAGTF through the use of Base Station Workstation/Communication Interface (BW/CI), Out Station Workstation/Communication Interface (OW/CI) or existing C4ISR architecture. Images can also be transmitted to the Tactical Exploitation Group (TEG) for more detailed processing and analysis. A recent increase of the MSIDS Video Exploitation Workstatin (VEW) requirement within Infantry Battaliions and Wing units, down to the squadron level, has grown from 18 to 140 in the past year. The VEW is utilized to import, manipulate, annotate still and video imager, create intelligence products, lift still frames from video, view multi-format TV signals and provide a field briefing capability. MSIDS FoS is currently employed in every location world-wide where the Marine Corps participates in military operations to include Irregular Warfare. MSIDS is currently, or has recently, been employed in Iraq, Kuwait, Afghanistan, Haiti, Philippines, and Horn of Africa.

Intelligence Equipment Readiness (IER) - The IER provides a responsive capability to alleviate Marine Corps intelligence systems shortfalls created by the rapidly evolving missions, threats and command relationships associated with the Overseas Contingencies Operations (OCO). The program provides for rapid technology insertion, as well as quick reaction training and logistics, to meeting the time sensitive intelligence infrastructure requirements of Marine Corps Operating Forces and the theater and service intelligence organizations supporting those forces. IER rapidly mitigates intelligence infrastructure shortfalls through exploitation of COTS, GOTS and Non-Developmental Item technology to the greatest extent practical. This effort also centralizes support for Marine Corps intelligence infrastructure items and systems that are not separately identified within the program funding lines. IER addresses requirements that span the entire Marine Corps intelligence systems architecture.

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 to include Irregular Warfare.

Radio Reconnaissance Equipment Program (RREP) provides the Radio Battalions, Radio Reconnaissance Platoons (RRP) and the Marine Corps Forces Special Operations Command (MARSOC) Direct Support Teams with mission unique Signals Intelligence/Ground Electronic Warfare (SIGINT/EW) Equipment suites. The latest suite of equipment, the SIGINT Suite 3 (SS-3) is comprised of technology and equipment necessary to prosecute advanced wireless signals. The RRP Marines are trained and equipped to support the full spectrum of Marine Expeditionary Unit Special Operations Capable (MEU SOC) mission profiles as well as provide real time, imbedded support to any special operations scenario. This provides the supported commander greater flexibility in employing his SIGINT assets when the use of conventional Radio Battalion assets are not feasible. RREP is currently maintaining the SS-3 using a spiral development approach that inserts the latest technology into the suite as it becomes mature. This enables the SS-3 to remain a current platform against emerging threats.

Counterintelligence (CI) and Human Intelligence (HUMINT) Equipment Program (CIHEP) provides the MAGTF with integrated, standardized, and interoperable information (automated data processing), communication, and specialized equipment to conduct the full spectrum of tactical CI/Force Protection to include Irregular

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Warfare, HUMINT, and technical collection operations in accordance with applicable national oversight directives. CIHEP provides each CI/HUMINT Company (CIHCo) with a suite of state-of-the-market equipment comprised of commercial-off-the-shelf, government-off-the-shelf, and non-developmental items (COTS/GOTS/NDI). It integrates audio, video, imagery, communications, technical surveillance and computer equipment into lightweight, modular, scalable, deployable packages. CIHEP enhances the capability to collect, receive, process, and disseminate CI/HUMINT information from overt, sensitive, technical, tactical, and Force Protection, in the service, joint, and combined forces area of operations.

Intelligence Broadcast Receiver (IBR) provides Marine tactical commanders access to National level Near Real-Time intelligence data provided over the Integrated Broadcast Service. IBR is employed across the MAGTF echelons through the following Host Systems: Intelligence Analysis System, Tactical Air Operations Center, Technical Control and Analysis Center, Tactical Air Command Center, Joint STARS Common Ground Station, Tactical Electronic Reconnaissance Processing and Evaluation System,Common Air Command and Control Systems, and Joint Stars Work Station.

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.

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
*GCCS-I3: Software Engineering Support *FY 2010 Plans:* Planned software engineering support. *FY 2011 Base Plans:* Planned software engineering support.	0.000	0.866	0.856	0.000	0.856
*GCCS-I3: Program Support *FY 2010 Plans:* Planned Program Support. *FY 2011 Base Plans:* Planned Program Support.	0.000	0.597	0.587	0.000	0.587
*GCCS-I3: Acquisition Logistics Support	0.000	0.129	0.129	0.000	0.129

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Planned acquisition logistics support. *FY 2011 Base Plans:* Planned acquisition logistics support.					
*GCCS-I3: Program Testing *FY 2010 Plans:* Planned program testing. *FY 2011 Base Plans:* Planned program testing.	0.000	0.134	0.141	0.000	0.141
*DCGS-MC: Test and Evaluation Support *FY 2010 Plans:* Planned test and evaluation support.	0.000	1.450	0.000	0.000	0.000
*DCGS-MC: Integration *FY 2010 Plans:* Planned integration.	0.000	2.615	0.000	0.000	0.000
*DCGS-MC: Engineering and Technical Support *FY 2010 Plans:* Planned engineering and technical support.	0.000	1.136	0.000	0.000	0.000
*DCGS-MC: Studies and Analysis	0.000	8.978	0.000	0.000	0.000

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Planned design, development, and test support of hardware and enterprise services. Support to include studies, analysis and evaluation.					
*TROJAN SPIRIT: Engineering and Technical Support *FY 2010 Plans:* Planned engineering and technical support. *FY 2011 Base Plans:* Planned engineering and technical support.	0.000	0.414	0.412	0.000	0.412
*Technical Control and Analysis Center PIP (TCAC-PIP): Software Upgrade *FY 2010 Plans:* Planned software development,integration and testing for COE 4.X and future releases. *FY 2011 Base Plans:* Planned Software Upgrade	0.000	1.836	1.827	0.000	1.827
*Technical Control and Analysis Center PIP (TCAC-PIP): Program Management Support *FY 2010 Plans:* Planned program management support. *FY 2011 Base Plans:* Planned program management support.	0.000	0.070	0.077	0.000	0.077
*Joint Surveillance Target Attack Radar System (JSTARS): Engineering and Tech Support	0.000	0.033	0.050	0.000	0.050

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Planned engineering, technical and management support. *FY 2011 Base Plans:* Planned engineering, technical and management support.					
*Joint Surveillance Target Attack Radar System (JSTARS): MTI Integration *FY 2010 Plans:* Planned future MTI integration into ground element. *FY 2011 Base Plans:* Planned MTI integration.	0.000	0.199	0.500	0.000	0.500
*Tactical Remote Sensor System (TRSS): RSMS VER 4.2.2. *FY 2010 Plans:* Planned software development of Remote Sensor Management System(RSMS) VER 4.2.2. *FY 2011 Base Plans:* Planned software upgrade.	0.000	0.375	0.850	0.000	0.850
*Tactical Remote Sensor System (TRSS): Engineering and Tech Support *FY 2010 Plans:* Planned engineering and technical management support. *FY 2011 Base Plans:* Planned engineering and technical management support.	0.000	0.100	0.500	0.000	0.500
*Tactical Remote Sensor System (TRSS): CSR Integration	0.000	1.413	0.700	0.000	0.700

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Planned development of Imaging and Processor Board II/Common Sensor Radio (CSR) integration. *FY 2011 Base Plans:* Planned CSR integration.					
*Tactical Remote Sensor System (TRSS): Urban Sensor System(USS) *FY 2010 Plans:* Planned development of USS. *FY 2011 Base Plans:* Planned devleopment of USS.	0.000	0.681	1.947	0.000	1.947
*Tactical Remote Sensor System (TRSS): IOT&E, Increment II *FY 2010 Plans:* Planned support of initial operational test and evaluation(IOTE) and Increment II efforts. *FY 2011 Base Plans:* Planned upgrades to Increment II.	0.000	0.100	0.120	0.000	0.120
*Team Portable Colllection System (TPCS): System Development *FY 2011 Base Plans:* Planned system development of upgrades.	0.000	0.000	1.213	0.000	1.213
*Team Portable Collection System (TPCS): Training Development and Test Support *FY 2010 Plans:* Planned training development and test support.	0.000	1.415	1.307	0.000	1.307

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Planned training development and test support					
*Team Portable Collection System (TPCS): Program Support *FY 2010 Plans:* Planned program support and management. *FY 2011 Base Plans:* Planned program support and management.	0.000	0.117	1.500	0.000	1.500
*Wide Field of View Persistent Surveillance (WFVPS): Engineering and Technical Support *FY 2010 Plans:* Planned engineering and technical support. *FY 2011 Base Plans:* Planned engineering and technical support.	0.000	0.226	0.490	0.000	0.490
*MAGTF Secondary Imagery Dissemination System: Program and Tech Support *FY 2010 Plans:* Planned program management and technical support for product development of hardware and software refresh. *FY 2011 Base Plans:* Planned program and technical support.	0.000	0.049	0.050	0.000	0.050
*MAGTF Secondary Imagery Dissemination System: Engineering Support	0.000	0.218	0.220	0.000	0.220

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Planned engineering support for program engineering group. *FY 2011 Base Plans:* Planned engineering support.					
*Intelligence Equipment Readiness (IER): Program and Technical Support *FY 2010 Plans:* Planned program management and technical support. *FY 2011 Base Plans:* Planned program management and technical support.	0.000	0.200	0.197	0.000	0.197
*Intelligence Analysis System, Mod Kit: Software Support *FY 2010 Plans:* Planned software engineering and management support. *FY 2011 Base Plans:* Planned software engineering and management support.	0.000	0.866	0.965	0.000	0.965
*Intelligence Analysis System, Mod Kit: Acquisition Logistics Support *FY 2010 Plans:* Planned acquisition logistics and administrative support. *FY 2011 Base Plans:* Planned acquisition logistics Support	0.000	0.519	0.523	0.000	0.523
*Radio Recon Equipment Program: Program and Technical Support	0.000	0.804	0.821	0.000	0.821

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Planned project management and technical support for research and test of new technologies for system upgrades. *FY 2011 Base Plans:* Planned project management and technical support for research and test of new technologies for system upgrades.					
*Counterintel and Human Intel Equip (CIHEP): Engineering and Technical Support *FY 2010 Plans:* Planned engineering, integration and technical support for refresh of program hardware and software. *FY 2011 Base Plans:* Planned engineering, integration and technical support for refresh of program hardware and software.	0.000	0.039	0.040	0.000	0.040
*Counterintel and Human Intel Equip (CIHEP): Program Management Support *FY 2010 Plans:* Planned program management support. *FY 2011 Base Plans:* Planned program management support.	0.000	0.089	0.090	0.000	0.090
*Intelligence Broadcast Receiver (IBR): Engineering and Technical Support *FY 2010 Plans:* Planned engineering and technical support.	0.000	0.495	0.493	0.000	0.493

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B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Planned engineering and technical support.					
*Intelligence Broadcast Receiver (IBR): Contractor Support *FY 2010 Plans:* Planned contractor program support. *FY 2011 Base Plans:* Planned contractor program support.	0.000	0.138	0.147	0.000	0.147
*Tactical Exploitation of National Capabilities (TENCAP): Program Support *FY 2010 Plans:* Planned program support and management; evaluate National Intelligence data systems for MAGTF applicability. *FY 2011 Base Plans:* Planned program support and management; evaluate National Intelligence data systems for MAGTF applicability.	0.000	3.320	3.372	0.000	3.372
*Tactical Exploitation of National Capabilities (TENCAP): Technical Assessments *FY 2010 Plans:* Planned technical assessments of emerging National data dissemination capabilities. *FY 2011 Base Plans:* Planned technical assessments of emerging National data dissemination capabilities.	0.000	0.155	0.192	0.000	0.192
Accomplishments/Planned Programs Subtotals	0.000	29.776	20.316	0.000	20.316

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C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PMC 47471: *DCGS*	0.115	2.535	0.000	21.789	21.789	0.000	0.000	0.000	0.000	0.000	24.439
• PMC 47472: *TROJAN SPIRIT*	8.478	0.107	0.107	11.800	11.907	0.111	0.113	0.116	0.118	Continuing	Continuing
• PMC 47473: *TCAC*	4.007	1.431	12.525	3.212	15.737	7.894	3.038	11.574	6.730	Continuing	Continuing
• PMC 47474: *JSTARS*	2.381	6.338	4.843	0.000	4.843	0.524	4.771	4.385	2.005	Continuing	Continuing
• PMC 47475: *TRSS*	12.307	5.403	5.221	5.028	10.249	5.016	5.674	8.905	9.667	Continuing	Continuing
• PMC 47476: *TPCS*	9.294	0.858	22.792	26.516	49.308	19.279	3.941	4.238	22.339	Continuing	Continuing
• PMC 47477: *WFVPS*	0.000	0.000	4.652	0.000	4.652	3.521	3.571	0.474	0.473	Continuing	Continuing
• PMC 47478: *MSIDS*	5.340	8.492	4.187	12.378	16.565	2.032	1.802	4.245	2.060	Continuing	Continuing
• PMC 47479: *IER*	5.510	11.019	5.434	0.000	5.434	5.272	5.630	5.804	5.967	Continuing	Continuing
• PMC 474710: *IAS*	1.059	4.534	14.352	5.780	20.132	2.210	14.185	13.650	3.583	Continuing	Continuing
• PMC 474711: *RREP*	7.245	1.081	5.982	6.984	12.966	1.348	1.378	1.420	1.468	Continuing	Continuing
• PMC 474712: *CIHEP*	5.091	6.455	9.956	0.000	9.956	7.378	5.418	9.091	7.733	Continuing	Continuing
• PMC 474713: *IBR*	3.148	6.806	1.051	3.199	4.250	0.392	0.437	0.450	0.415	Continuing	Continuing
• PMC/4767: *DCGS*	0.000	0.000	4.582	0.000	4.582	4.488	6.149	2.192	2.114	Continuing	Continuing
• RDTEMC/0305208M: *DCGS*	0.000	0.000	8.377	0.000	8.377	5.533	5.497	5.553	3.731	Continuing	Continuing

D. Acquisition Strategy

(U) ACQUISITION STRATEGY GCCS-I3: This program promotes and ensures interoperability among USMC Intelligence Systems. Engineering and technical support is provided to PM Intel systems integration efforts for incorporation of the COE and GCCS-I3 software baseline. An Intelligence Integration Facility has been established at the Integrated Team Solution Facility. As such, this facility will be used as the hub for the entire integration effort of the GCCS-I3 initiative.

(U) ACQUISITION STRATEGY DCGS-MC: The Marine Corps DCGS-MC project officer will leverage the USAF DCGS 10.2 Research, Development Test and Evaluation (RDT&E) effort and focus on the development of the DCGS Integrated Backbone (DIB) for the DCGS-MC. Additionally, the DCGS-MC will leverage MAGTF Legacy system DIB compliancy efforts.

(U) ACQUISITION STRATEGY TROJAN SPIRIT: Procure and continuously improve USMC TROJAN SPIRIT systems to meet evolving Marine Corps operational needs while maintaining interoperability with the Army TROJAN Network and maintaining, as closely as practical, configuration common to the Army TROJAN SPIRIT systems.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*

(U) ACQUISITION STRATEGY TCAC: The acquisition of components for the TCAC will maximize the use of existing equipment, NDI/COTS/GFE equipment/ software. The integration effort for TCAC hardware components will be accomplished under the control of the SSA, MCSC. Software integration and support will be accomplished by contractors under the control of the Project Officer. These activities report to and are directed by the Program Manager, Intelligence Systems, Marine Corps Systems Command (MARCORSYSCOM). Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.

(U) ACQUISITION STRATEGY JSTARS: JSTARS will utilize ongoing Army JSTARS contracts for continue development of MTI and MTI Sensor capabilities as well as upgrades to the JSTARS Common Software baseline. IPv6 research is being conducted in conjunction with the Army. Post Deployment Software Support (PDSS) will be provided through the Communications-Electronics Command (CECOM), Ft Monmouth, NJ. Surveillance Control Data Link (SCDL) refresh efforts will conducted in conjunction with the Army JSTARS Program Office. Development of a Moving Target Indicator capability for integration into the Distributed Common Ground System-Marine Corps will continue through MTCSC and a Northrup Grumman sub-contract, via SPAWAR, Charleston SC.
(U) ACQUISITION STRATEGY TRSS: The TRSS are typically Non-Developmental Item (NDI) integration efforts, making maximum use of the efforts of hardware and software initially developed by other DoD organizations and programs. The initial phases of each Increments are cost-plus fixed-fee efforts, while the production phase, which encompasses the production, fielding, training and initial support of the systems, are firm-fixed price efforts.

(U) ACQUISITION STRATEGY TPCS: TPCS, the ever-increasing sophistication of target threats and information technology necessitates an evolutionary acquisition approach. TPCS will make incremental improvements through maximum use of COTS, GOTS and NDI. These technology insertions and product improvements will ensure the Radio Battalions maintain cutting edge technologies and collection capabilities.

(U) ACQUISITION STRATEGY TPC: The TPC will refresh and upgrade the existing TPC equipment as technology advances. As new technology emerges, the current fielded systems will need incremental hardware and software refreshes to sustain operational requirements and to meet the ORD requirement of compliancdee with the NGA US Imagery and Geospatial Information System. The TPC program uses existing Government contracts for hardware/software developmet and integration. Full-time contractor support is provided through the Commercial Enterprise Omnibus Support Services (CEOss) contract. Additionall full time engineering and integration support is provided by Northrop Grumman Information Technology TASC through the Information Technology Omnibus Procurement II (ITOP II) contract under the auspices of the MCSC Information Technology Modernization 2000 (ITM2K) Project Office. Maintenance support will be managed by MARCORLOGBASES Albany and MCSC, Albany and through separate contractual agreements.

(U) ACQUISITION STRATEGY TEG: The TEG Program Office leverages the advantages of its multi-service common software baseline and inherent Joint service interoperability. Development, integration, interoperability, security certification and accreditation and acquisition is divided between three prime contractors: Northrop Grumman Electronic Systems, Baltimore, MD (NGB) (through a classified contract); Space and Naval Warfare Systems Center, Charleston, SC (SSCC), and MTC Services Corporation. An incremental refresh is currently ongoing for the TEG Main.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
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(U) ACQUISITION STRATEGY WFVPS: MCCDC maintains sponsorship of the Angel Fire UUNS. Marine Corps funds Air Force Research Lab to support the United States Air Force (USAF) in the development of subsequent sensor spirals as a technology demonstration supporting Marines operating in the CENTCOM AOR. In keeping with the Program Decision Memorandum (PDM) of November 2007. Development, integration, interoperability and testing are divided between AFRL, Los Alamos National Laboratory (LANL) and the NRL.

(U) ACQUISITION STRATEGY MSIDS: Full Operational Capability (FOC) in 2QTR FY03. Subsequent "increment refreshes" are under way in order to keep the systems from becoming unreliable and unsupportable. The increment refresh approach will effectively leverage technological advances. Each increment of upgrades will refresh 1/3 of the fielded components.

(U) ACQUISITION STRATEGY IER: This program seeks to support a wide range of technology solutions based on the requests received from the Operating Forces and/or PM Intelligence Program of Record. The request must require solution evaluation beyond merely acquisition to be recommended as an Intelligence Systems Readiness (ISR) candidate. Each request will be validated by the ISR team and approved by the Project Officer and PM Intel before solution evaluation begins. The ISR program will use COTS/GOTS/NDI solutions to the greatest extent possible.

(U) ACQUISITION STRATEGY IAS: The IAS program uses existing Government contracts for hardware and software development and integration. The system is comprised primarily of Commercial Off-the-Shelf (COTS) and Government Off-The-Shelf (GOTS) equipment. The IAS FoS utilizes an evolutionary strategy to ensure periodic incorporation of state-of-the-art technology that meets both current and future Marine Corps intelligence requirements while maintaining system readiness and reliability.

(U) ACQUISITION STRATEGY RREP: Research, test and integrate new technology will keep pace with the evolving Marine Corps operational needs. Acquisition will maximize the use of NDI/COTS hardware and software to ensure the supporting units maintain cutting edge technology and collection capabilities.

(U) ACQUISITION STRATEGY CIHEP: CIHEP will use the Integrated Team Solutions Facility for hardware and software upgrades as necessary. CIHEP will coordinate acquisition of communications equipment with the Program Manager Communications section for planned upgrades to the Communications Module. SPAWAR, Charleston will be utilized for the technology dictates.

(U) ACQUISITION STRATEGY IBR: In house contracts will be used to conduct engineering studies and test and evaluation activities associated with the Marine Corps implementation of the Integrated Broadcast Service, Common Message Format, ENTR integration and test and evaluation.

(U) ACQUISITION STRATEGY TENCAP: Work will be led in-house. Necessary contractor support will be acquired using already existing contracts.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	**PROJECT** 2272: *Intel Command and Control (C2) Sys*

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*

Product Development ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TENCAP	Various/FP	L3 COMM STAFFORD, VA	25.055	3.475	Dec 2009	3.564	Dec 2010	0.000		3.564	0.000	32.094	Continuing
TPCS	C/CPFF	SPAWAR CHARLESTON, SC	5.793	0.350	Dec 2009	2.820	Dec 2010	0.000		2.820	0.000	8.963	Continuing
TRSS	Various/FP	VARIOUS Not Specified	2.668	2.094	Jan 2010	2.647	Nov 2010	0.000		2.647	0.000	7.409	Continuing
JSTARS	Various/FP	SPAWAR CHARLESTON, SC	0.000	0.110	Dec 2009	0.000		0.000		0.000	0.000	0.110	Continuing
TROJAN SPIRIT	MIPR	CECOM FT. MONMOUTH, NJ	0.000	0.414	Dec 2009	0.412	Dec 2010	0.000		0.412	0.000	0.826	Continuing
DCGS	Various/FP	VARIOUS Not Specified	8.101	3.715	Nov 2009	0.000		0.000		0.000	0.000	11.816	Continuing
		Subtotal	41.617	10.158		9.443		0.000		9.443	0.000	61.218	

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*

Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
GCCS-I3	Various/ Various	VAR VAR	5.325	1.617	Feb 2010	1.609	Feb 2011	0.000		1.609	0.000	8.551	Continuing
TRSS-PIP	Various/ Various	VAR VAR	11.071	0.475	May 2010	1.350	May 2011	0.000		1.350	0.000	12.896	Continuing
DCGS	Various/ Various	VAR VAR	0.000	9.014	May 2010	0.000		0.000		0.000	0.000	9.014	Continuing
MSIDS	Various/ Various	VAR VAR	0.000	0.267	May 2010	0.270	May 2011	0.000		0.270	0.000	0.537	Continuing
TPCS	Various/ CPFF	NSMA STAFFORD, VA	7.916	0.000		0.000		0.000		0.000	0.000	7.916	Continuing
CIHEP	Various/ Various	VAR VAR	0.125	0.128	May 2010	0.130	May 2011	0.000		0.130	0.000	0.383	Continuing
IAS	Various/ Various	VAR VAR	3.818	1.385	Jan 2010	1.488	Jan 2011	0.000		1.488	0.000	6.691	Continuing
TCAC	Various/ Various	VAR VAR	3.418	1.856	Dec 2009	1.847	Dec 2010	0.000		1.847	0.000	7.121	Continuing
IBR	Various/ CPFF	NSMA STAFFORD, VA	0.286	0.633	May 2010	0.640	May 2011	0.000		0.640	0.000	1.559	Continuing
IER	WR	SPAWAR, CHARLESTON CHARLESTON, SC	1.536	0.200	Jan 2010	0.197	Jan 2011	0.000		0.197	0.000	1.933	Continuing
JSTARS	Various/ CPFF	NSMA STAFFORD, VA	0.000	0.122	Dec 2009	0.550	Nov 2010	0.000		0.550	0.000	0.672	Continuing
RREP	Various/ CPFF	NSWC CRANE, IN	0.000	0.467	Dec 2009	0.275	Feb 2011	0.000		0.275	0.000	0.742	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*

Support ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RREP	Various/ CPFF	NSMA STAFFORD, VA	0.000	0.267	Dec 2009	0.476	Dec 2010	0.000		0.476	0.000	0.743	Continuing
RREP	Various/ FFP	MCSC QUANTICO, VA	0.000	0.070	Dec 2009	0.070	Dec 2010	0.000		0.070	0.000	0.140	Continuing
WFVPS	Various/ CPFF	VAR VAR	0.000	0.226	May 2010	0.490	May 2011	0.000		0.490	0.000	0.716	Continuing
		Subtotal	33.495	16.727		9.392		0.000		9.392	0.000	59.614	

Remarks

Test and Evaluation ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TRSS-PIP	Various/ Various	MCOTEA QUANTICO, VA	0.452	0.100	Jan 2010	0.120	Jan 2011	0.000		0.120	0.000	0.672	Continuing
DCGS	Various/ Various	MCOTEA QUANTICO, VA	0.000	1.450	Dec 2009	0.000		0.000		0.000	0.000	1.450	Continuing
TCAC	Various/ Various	MCOTEA QUANTICO, VA	0.060	0.050	Dec 2009	0.057	Dec 2010	0.000		0.057	0.000	0.167	Continuing
GCCS-I3	MIPR	JITC FT HUACHUCA, AZ	0.199	0.109	Mar 2010	0.104	Mar 2011	0.000		0.104	0.000	0.412	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*

Test and Evaluation ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TPCS	Various/ Various	MCOTEA QUANTICO, VA	1.137	0.500	Dec 2009	0.000		0.000		0.000	0.000	1.637	Continuing
		Subtotal	1.848	2.209		0.281		0.000		0.281	0.000	4.338	

Remarks

Management Services ($ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DCGS	Various/ Various	VAR VAR	2.280	0.000		0.000		0.000		0.000	0.000	2.280	Continuing
TPCS	MIPR	IEWTD VAR	0.000	0.532	Dec 2009	0.000		0.000		0.000	0.000	0.532	Continuing
TPCS	WR	SPAWAR CHARLESTON, SC	0.000	0.150	Dec 2009	1.200	Dec 2010	0.000		1.200	0.000	1.350	Continuing
TCAC	WR	Naval Air Warfare Center Pax River, MD	0.506	0.000		0.000		0.000		0.000	0.000	0.506	Continuing
		Subtotal	2.786	0.682		1.200		0.000		1.200	0.000	4.668	

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*	

	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	79.746	29.776		20.316		0.000		20.316	0.000	129.838	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	PROJECT 2272: *Intel Command and Control (C2) Sys*

GCCS

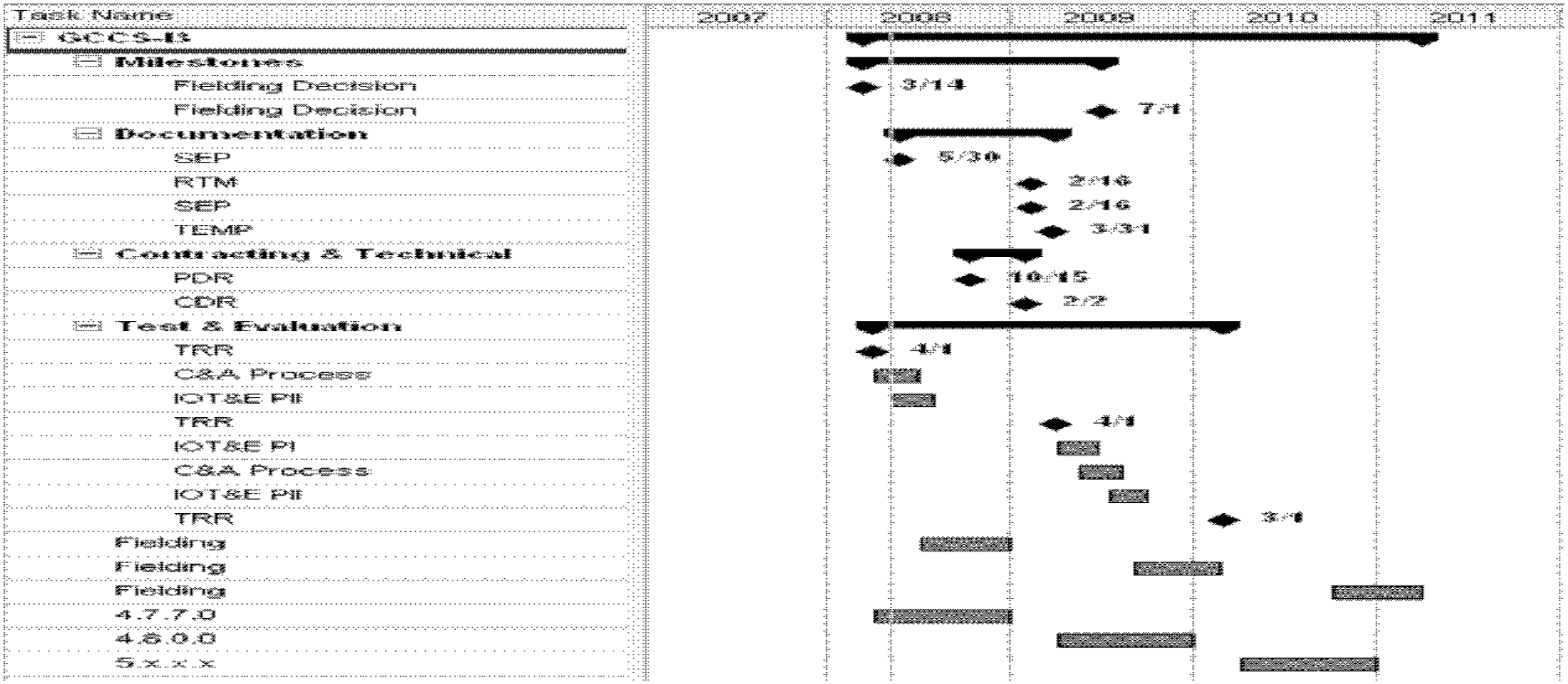

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	**PROJECT** 2272: *Intel Command and Control (C2) Sys*

TCAC

Task Name	Duration	Start	Finish
TCAC	**2154 days?**	**Mon 10/1/07**	**Thu 12/31/15**
TCAC 4.1 TS/SCI	**284 days?**	**Mon 12/1/08**	**Thu 12/31/09**
TCAC 4.2 TS/SCI	**871 days?**	**Mon 10/1/07**	**Mon 1/31/11**
Procurement	174 days?	Thu 1/1/09	Tue 9/1/09
Software	**595 days?**	**Mon 10/1/07**	**Fri 1/8/10**
SW Integration	**97 days?**	**Mon 7/20/09**	**Tue 12/1/09**
Fielding Decision	6 days?	Mon 11/23/09	Mon 11/30/09
SW Fielding	20 days?	Mon 1/4/10	Fri 1/29/10
FOC	1 day?	Fri 2/5/10	Fri 2/5/10
HW Fielding	67 days?	Mon 11/2/09	Tue 2/2/10
PDSS	305 days?	Tue 12/1/09	Mon 1/31/11
Quarterly SW Updates/Technology	220 days?	Mon 3/1/10	Fri 12/31/10
TCAC 5.0	**521 days?**	**Fri 1/1/10**	**Fri 12/30/11**
Research, Analysis, Engineering	174 days?	Fri 1/1/10	Wed 9/1/10
Procurement & Integration	174 days?	Fri 1/1/10	Wed 9/1/10
Fielding Decision	1 day?	Mon 8/2/10	Mon 8/2/10
Fielding	66 days?	Fri 10/1/10	Fri 12/31/10
FOC	1 day?	Mon 1/3/11	Mon 1/3/11
PDSS	326 days?	Fri 10/1/10	Fri 12/30/11
Quarterly SW Updates/Technology	261 days?	Fri 10/1/10	Fri 9/30/11
TCAC 5.X	**831 days?**	**Tue 10/26/10**	**Tue 12/31/13**
Research, Analysis, Engineering	265 days	Tue 10/26/10	Mon 10/31/11
Fielding	88 days?	Fri 9/30/11	Tue 1/31/12
PDSS	588 days?	Fri 9/30/11	Tue 12/31/13
TCAC 6.0	**760 days?**	**Fri 2/1/13**	**Thu 12/31/15**
Research, Analysis, Engineering	239 days?	Fri 2/1/13	Wed 1/1/14
Fielding	64 days?	Fri 1/31/14	Wed 4/30/14
PDSS	436 days?	Thu 5/1/14	Thu 12/31/15

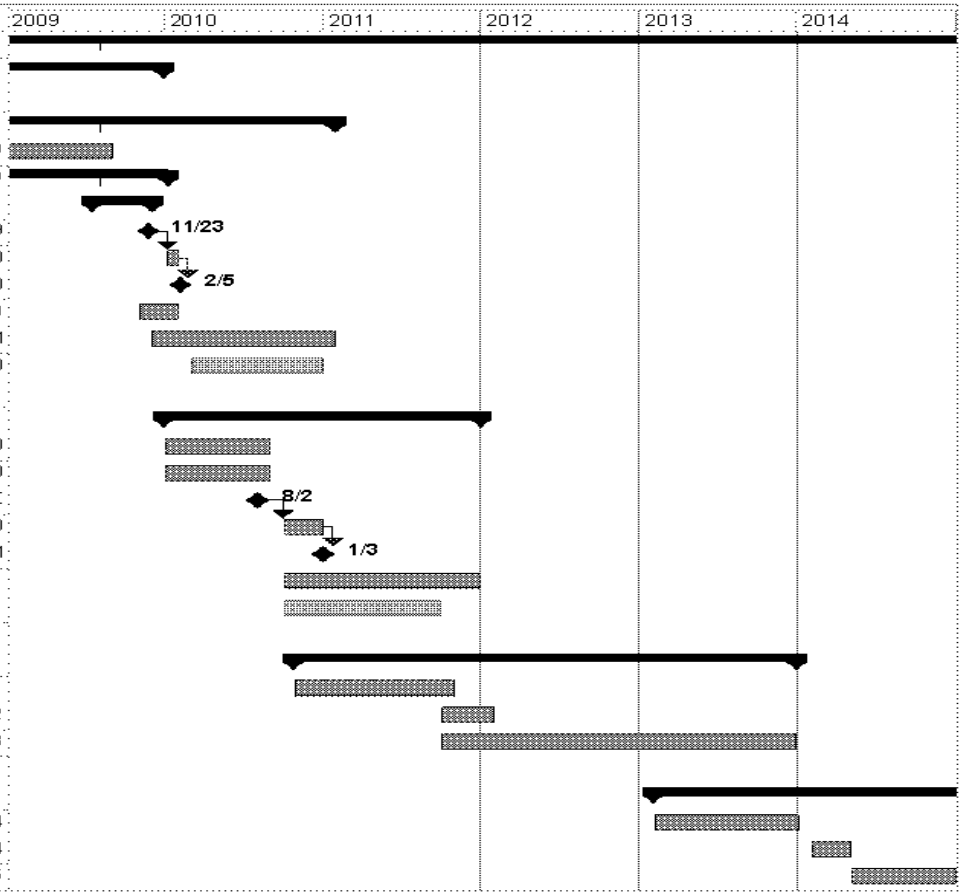

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0206625M: *USMC Intelligence/Electronics Warfare Sys*	**PROJECT** 2272: *Intel Command and Control (C2) Sys*

Schedule Details

	Start		End	
Event	**Quarter**	**Year**	**Quarter**	**Year**
GCCS DOCUMENTATION	2	2009	2	2009
GCCS SEP UPDATE	2	2009	2	2009
GCCS TEMP REVIEW	2	2009	2	2009
GCCS CDR	2	2009	2	2009
GCCS TRR	3	2009	3	2009
GCCS C&A	3	2009	4	2009
GCCS IOT& E PII	3	2009	4	2009
GCCS SEP	2	2010	2	2010
TCAC 4.2 RESEARCH, ANLYSIS AND ENG	1	2009	3	2009
TCAC 4.2 FIELDING DECISION	1	2009	3	2009
TCAC 4.2 SW FIELDING	3	2009	4	2009
TCAC 4.2 FOC	3	2009	4	2009
TCAC 4.2 HW FIELDING	1	2010	2	2010
TCAC 4.2 PDSS	3	2009	4	2010
TCAC 4.2 QTRLY S/W UPDATES/TECHNOLOGY	2	2010	1	2011
TCAC 5.0 RESEARCH, ANLYSIS AND ENG	2	2010	4	2010
TCAC 5.0 PRO/INTEGRATION	2	2010	4	2010
TCAC 5.0 FIELDING DECISION	3	2010	4	2010

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy		DATE: February 2010
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	Start		End	
Event	Quarter	Year	Quarter	Year
TCAC 5.0 FOC	4	2010	4	2011
TCAC 5.0 PDSS	1	2011	1	2011
TCAC 5.0 QTRLY S/W UPDATES/TECHNOLOGY	1	2011	4	2011
TCAC 5.X RESEARCH, ANLYSIS AND ENG	1	2011	1	2012
TCAC 5.X FIELDING	4	2012	2	2013
TCAC 5.X PDSS	4	2012	1	2014
TCAC 6.0 RESEARCH, ANLYSIS AND ENG	2	2013	1	2014
TCAC 6.0 FIELDING	2	2014	3	2014
TCAC 6.0 PDSS	3	2014	4	2015
TPCS BLOCK 1 SUITES UPGRADE	3	2009	2	2010
TPCS BLOCK 1 IOT& E	3	2010	3	2010
TPCS BLOCK 1 MS -C	4	2010	4	2010
TPCS BLOCK 1 PROD	1	2011	4	2012
TPCS BLOCK 1 IOC	3	2010	3	2010
TPCS BLOCK II G-PIK	4	2012	2	2014
TPCS BLOCK II G=PIK OT&E	3	2014	3	2014
TPCS BLOCK II G-PIK MS-C	4	2014	4	2014
TPCS BLOCK II PRODUCTION	1	2015	1	2015
IAS CONTRACT AND TECH	2	2009	2	2009
IAS PDR	2	2009	2	2009

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy		DATE: February 2010
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	Start		End	
Event	**Quarter**	**Year**	**Quarter**	**Year**
IAS CDR	3	2009	3	2009
IAS TEST AND EVALUATION IOSV2A	3	2009	3	2009
IAS IV&V	3	2009	3	2009
IAS IV&V TIER II	1	2009	1	2009
IAS TRR	1	2009	1	2009
IAS MARINE LINK SAT	3	2009	3	2009
IAS C&A TIER I	4	2009	4	2009
IAS TEST AND EVALUATION	1	2010	1	2010
IAS S/W INTE AND TEST 2.O	2	2010	2	2010
IAS MARINE LINK SAT C&A TIER I	1	2010	2	2010
IAS SWF VT 1.0.3	1	2010	1	2010
TRSS - ISR DCGS INTE SENSOR	1	2010	4	2010
TRSS SYS INTE	1	2010	3	2010
TRSS MS -B	4	2010	1	2011
TRSS URBAN SENSOR DEV	2	2010	4	2010
TRSS INTERNAL PROCESSOR BOARD III	1	2010	3	2010
TRSS TEST AND DEV	1	2011	4	2011
TRSS IOT&E	4	2011	1	2012
TRSS PROD USS LRIP	2	2012	4	2014
TRSS FOC USS	3	2014	4	2014