PMW 790 Shore and Expeditionary Integration Program Office
Installation Management Support Services
Performance Work Statement (PWS)

1.0 INTRODUCTION

The Shore and Expeditionary Integration Program Office (PMW 790) is acquiring support services in the areas of production systems engineering, logistics, installation management, and integration/planning/requirements services for the architecture, integration, acquisition, and support of multiple shore and expeditionary Command, Control, Communications, Computers, and Intelligence (C4I) programs. The support services include:

- Production Systems Engineering
- Logistics Management Services
- Special Projects Program Management
- Shore Installation Manager Support for Major Procurements
- Shore Installation Manager Support for Research Projects and Test Sites

2.0 BACKGROUND

The Shore and Expeditionary Integration Program Office's (PMW 790) mission is to acquire, integrate, deliver, and support interoperable shore-based C4I capabilities for the warfighter. PMW 790's vision is to be the preeminent provider of integrated shore-based transformational Network Centric Warfare capabilities to the warfighter by providing assured connectivity between tactical forces and higher commands. The overarching goal is to ensure C4I systems programmed for installation on Navy ships have matching shore facilities of appropriate capacity to support Fleet deployments worldwide. Our goal is to migrate the shore sites and their terrestrial interconnections into a coherent, scalable, network-centric communications and multiplexing fabric designed to optimize functionality by effecting improvements that both satisfy current shortfalls and, wherever possible, provide the building blocks for future C4I architecture. The shore and expeditionary integration modernization efforts consist of several programs and projects:

A. Deployable Joint Command and Control (DJC2) (ACAT I - AM) is a Secretary of Defense (SECDEF) and Chairman, Joint Chiefs of Staff (CJCS) priority Department of Defense transformation initiative that is providing a standardized, integrated, rapidly deployable, modular, scalable, and reconfigurable joint command and control (C2) capability to designated Geographic Combatant Commands (GCCs). DJC2 is the material solution to Defense Planning Guidance that called for the development of Standing Joint Task Forces (JTFs) and a deployable C2 capability. DJC2 provides GCCs and JFCs a mission critical, integrated family of C2 software applications and systems with which to plan, control, coordinate, execute, and assess military operations. DJC2 capabilities are intended for all levels of conflict and are reconfigurable to meet specific GCC and JTF mission requirements.

B. Shore Tactical Assured Command and Control (STACC) (ACAT IV-M) formerly known as Tactical Switching is the premiere IT-21 Navy Network Operations provider, deploying real-time network situational awareness allowing for proactive and predictive management of the IT-21 Navy network. STACC also modernizes the Navy's shore legacy serial infrastructure into a full IP network centric enterprise capable of providing seamless and secure transport with increased bandwidth in support of DoD, joint and coalition operations. STACC provides the services and transport for voice, video and data between shore facilities and afloat users, in addition to unclassified/classified services to afloat and expeditionary users. STACC is currently working to transition the Navy tactical architecture to Virtual Secure Enclave (VSE) technology to enhance cyber security and reduce hardware/sustainment costs.

C. The Joint UHF Military Satellite Communications Network Integrated Control System (JMINI) (ACAT IV-T) is a joint interest program, directed by the Military Communications Electronics Board (MCEB) with the Navy designated as the lead service. The JMINI Control System will provide dynamic centralized control of joint 5-kHz and 25-kHz UHF MILSATCOM voice and data resources (channels and Time Division Multiple Access (TDMA) time slots). This is accomplished via a globally integrated system of four control stations, located at the three NCTAMS sites plus Naval Computer and Telecommunications Station (NCTS) Guam.

D. Shore Naval Messaging Program (ACAT IV-M) includes the Defense Messaging System (DMS), Legacy Messaging systems, Naval Regional Enterprise Messaging System (NREMS), Tactical Messaging Gateway (TMG), Nuclear Command, Control & Communications (NC3), and DMS Information Assurance (IA) products. DMS is an OSD-mandated replacement for the legacy Automated Digital Network (AUTODIN) message delivery architecture; it implements a single organizational messaging system throughout DoD, with seamless strategic (ashore) and tactical (afloat) Joint interoperability. DMS also includes the IA product; Certification Authority Workstation (CAW). TMG is the messaging gateway between shore-based organizations and the Fleet. TMG incorporates DMS core and COTS products to deliver DMS messages and attachments to the Fleet. The TMG acts as a proxy for the afloat units and submits messages into the DMS backbone.

E. Tactical Messaging (ACAT IV-T), formerly known as Naval Modular Automated Communication System II (NAVMACS II)/Single Message Solution (SMS), automates and increases the speed and efficiency of handling organizational message traffic aboard ships. Official Information Exchange (OIE) material solutions are being procured to replace the older NAVMACS systems, which lack the speed and capacity to handle current message traffic loads during periods of accelerated combat operations. Tactical DMS satisfies Multi-command Requirements of Operational Capability (MROC) requirements to transition to IP based organizational messaging. Tactical Messaging uses Commercial Off-the-Shelf (COTS) hardware and software, Government Off-the-Shelf (GOTS) furnished software, developmental software, and DMS software to provide a technologically improved shipboard message processing system capable of exchanging messages electronically between afloat units and organizations, and individuals in DoD and other federal agencies. The system features public key infrastructure (PKI) signed and encrypted email transfers to/from an afloat unit with the Tactical Messaging Gateway (TMG) enclaves located at the two Naval Computer and Telecommunications Area Master Stations (NCTAMS). The TMG acts as a proxy for the afloat units. The Tactical Messaging Systems will be modified under the Command and Control Official Information Exchange (C2OIX) project to address obsolescence issues.

F. Command and Control Official Information eXchange (C2OIX) (Project) The C2OIX Project provides joint C2 organizational messaging for shore and afloat platforms to satisfy GENSER messaging requirements. It automates and increases the speed and efficiency of handling organizational message traffic aboard ships, submarines and shore sites. The C2OIX project is a Service Life Extension Project that provides a technology refresh for NAVMACS systems on ships, submarines and tactical mobile units, as well as modernizing the shore GENSER messaging system. The shore component of the C2OIX Project is the AN/UYC-20(V)2, which is currently being replaced by the AN/UYC-20(V)3 at Naval Computer Telecommunication Area Master Station (NCTAMS) Atlantic and NCTAMS Pacific.

G. Navy Modernized Hybrid Solution (NMHS) (Project) is a Service Life Extension Project involving the legacy messaging subsystems. NMHS includes Mission Assurance Category One systems and is the Navy Messaging component to the Nuclear Command, Control and Communications Hybrid Solution. NMHS provides accurate and reliable delivery of time-critical Executive Command Authority Emergency Action Messages to United States Nuclear Forces.

H. The Navy Expeditionary C4I (Project) supports the Chief of Naval Operations (CNO) vision to have common supportable Command, Control, Communications, Computers and Intelligence (C4I) equipment across its Navy Expeditionary Forces. The project provides C4I capabilities that are rapidly deployable, self-sustainable, adaptive to mission requirements, scalable and agile to support Navy expeditionary forces supporting waterborne and ashore anti-terrorism, force protection, theater security cooperation and engagement, and humanitarian assistance/disaster relief contingencies. PEO C4I, PMW 790 has assumed life cycle management responsibility and Space and Naval Warfare Systems Command (SPAWAR) has assumed Technical Authority (TA) responsibility for Navy Expeditionary C4I equipment from Naval Facilities Engineering Command (NAVFAC) in accordance with the Memorandum of Agreement between NAVFAC, SPAWAR and PEO C4I dated 14 May 2010.

I. Integrated Waveform Control System (IW CS) (Project) provides an integrated, dynamic and centralized control of UHF MILSATCOM 25 kHz Demand Assigned Multiple Access channels to maximize existing satellite communications resources through decentralized Web-based management. IW CS enables reliable communications for warfighters and U.S. allies in tactical and training environments and optimizes access to the entire UHF MILSATCOM spectrum.

J. Shore Telephony (Project) is the Navy's primary support of Defense Switch Network telephone services. The project provides system sustainment, obsolescence management and technology refresh for the Fleet Cyber Command/Navy Information Dominance Force-owned shore sites as well as tactical shore secure/unclassified voice and video capabilities for the Fleet. In FY12, under the auspices of CNO Efficiency Board Five, Shore Telephony obtained additional funding to upgrade IP capable switches for the San Diego and Norfolk regions. Shore Telephony is leading the IP trucking phase of the Navy's Voice/Video over IP transition as well as the Voice/Video over Secure IP and Video Teleconferencing over Internet Protocol efforts.

K. Maritime Operations Center (MOC) (Project) The PMW 790 MOC program office is responsible for the coordination and delivery of Navy command and control (C2) capabilities at the Operational Level of War (OLW) that guide execution of the six (6) core capabilities of the Navy. These capabilities are outlined in the 2009 A Cooperative Strategy for 21st Century Seapower (Forward Presence, Deterrence, Sea Control, Power Projection, Maritime Security, Humanitarian Assistance and Disaster Response) through the full range of military operations. The MOC initiative focuses on improving the Navy's OLW C2 by establishing baseline capabilities in globally-networked MOCs enabling Numbered Fleet and Navy Component Commanders (NFC/NCC) to assume a range of Service and Joint roles while continuing to accomplish traditional Fleet management functions.

L. The Department of Defense (DoD) Teleport program provides the warfighting combatant commanders with extended multi-band and multi-media satellite communication capability and seamless access to terrestrial components of the Defense Information Systems Network (DISN) and legacy C4I systems for worldwide operations.

M. The Ballistic Missile Defense System (BMDS) shore connectivity research and development effort planned for the upcoming Spiral releases of the BMDS augments the existing UHF path between Aegis Ballistic Missile Defense (BMD) ships and Command and Control, Battle Management and Communications (C2BMC) sites ashore, enabling an enhanced Long Range Surveillance and Tracking capability for national missile defense and an Engage function for in-theater missile defense using a variety of SATCOM paths (e.g., EHF, AEHF, KA). The BMDS Shore connectivity is an integral portion of the Aegis Weapon System, Standard Missile, Navy Ballistic Missile C2BMC systems, and Terminal High Altitude Area Defense (THAAD) sensor systems. Aegis BMD is the primary sea element of the

Midcourse Defense Segment. The BMDS Shore connectivity efforts will take full advantage of the DoD Teleport program and other PEO C4I programs of record.

N. The Aegis Ashore C4I (AA C4I) effort involves research, development, integration and testing planned for the BMD Phased Adaptive Approach ashore sites by employing cost effective and mature Ballistic Missile Defense System (BMDS) Technologies. Aegis Ashore is a capability development which has adapted the Aegis BMD 5.0 capability to a land based system by leveraging the mature technology and technical basis of Aegis BMD 5.0 (from ACB12) and SM-3 Blk IB and by focusing on enabling the Aegis BMD mission ashore by engineering a shore capability that supplants ship structure and is removable.

O. Shore Integration/Installation Project Management - As the PEO C4I Shore Platform Manager, the Shore and Expeditionary Integration Program Office, PMW 790, is responsible for the planning and modernization of C4I equipment in support of new shore MILCON and other special projects, in-service platforms, and designated shore sites. These activities routinely require PMW 790 to identify, develop, procure and implement C4I capability and engineering changes in close coordination and synchronization with a wide variety of Acquisition Commands (DISA, NSA, ONI, etc.) to include other PEO's Programs of Record (PORs), SPAWAR activities and other naval and DOD organizations. These modernization efforts include the fielding of new systems and capabilities, the incremental upgrades of existing systems or the maintenance of existing systems to meet Fleet requirements.

3.0 OBJECTIVE

The objective of this Task Order is to obtain support services in the area of production systems engineering, logistics, installation management, and shore and expeditionary integration/planning/design/requirements. This tasking will effectively support the production, acquisition, interoperability, installation and integration required by PMW 790 and associated SPAWAR Shore entities. This Task Order will also support procurement as well as shore and expeditionary installation planning, design, production and system turnover requirements. PMW 790, as the PEO C4I Shore Platform Manager, provides centralized management and analysis for PEO C4I installations. This effort encompasses C4I work planning, integration and/or consolidation to include project controls (examples may include Integrated Master Schedules (IMS), Earned Value Management (EVM) reporting, Risk Management Analysis (RMA)). The Task Order may also include daily tracking, issue resolution, metric development, analysis and reporting, brief development, and other related mission requirements.

The efforts under this Task Order will focus on technical support and production engineering, installation support services, systems integration design and planning, and logistics management support services. These support services facilitate the procurement and fielding of PEO C4I and Team SPAWAR shore based systems and programs.

4.0 APPLICABLE DIRECTIVES/DOCUMENTS

The Contractor shall adhere to the following documentation (including the most recent versions) in the performance of the tasks specified in Section 5.0 of the Performance Work Statement (PWS).

Document Type	Version	Title	Date
SPAWAR Manual	COMSPAWAR M-4720.1	Shore Installation Process Handbook	12 Nov 2014
United States Code	Title 10	Armed Forces	Nov 2015

DoD Instruction	5000.02	Operation of the Defense Acquisition System	Jan 2015
Code of Federal Regulation	Title 48 Vol. 1,2	Federal Acquisition Regulations	Oct 2015
Code of Federal Regulation	Title 48, Vol.3	Defense Federal Acquisition Regulations	Oct 2015
SPAWARINST	4350.1B	SPAWAR Global Work Breakdown Structure	4 Jan 2017
DoN Chief Info Officer	Guide	DON CIO Information Assurance Strategy Guidance	16 Nov 2016
SECNAVINST	M-5216.5D	Department of the Navy Correspondence Manual	March 2010
SPAWARINST	5721.1B	SPAWAR Section 508 Implementation Policy	17 Nov 2009
OPNAVINST	1500.76C	Navy Training System Requirements, Acquisitions and Management	14 Aug 2014
Department of Defense Instruction	Cybersecurity		Mar 14, 2014

5.0 PERFORMANCE REQUIREMENTS

The Contractor shall perform the following tasks in accomplishing the requirements of this Task Order (TO). The Contractor shall provide the necessary timely assistance to meet program emergent requirements as established and requested by the Contracting Officer Representative (COR) or his/her authorized representative. In addition, the Contractor shall perform, document, and deliver the output of each task in accordance with the requirements stated in each task and the directives listed in Section 4.0 Applicable References Documents unless otherwise directed by the COR or his/her authorized representative. All required written documentation, reports, briefing materials, and other materials as described in paragraph 5 of this PWS shall be submitted in the requested format, without spelling, grammatical, or calculation errors. The Contractor shall participate in command-sponsored training, as assigned. Command sponsored training is defined as High Performance Organization (HPO), CMMI, Team Building, Security, Safety and organizational development such as LEAN Six Sigma, but does not include training that would incur additional government cost.

The contractor shall have broadband Internet connectivity and an industry standard email system for communication with the Government. The contractor shall be capable of Public Key Infrastructure client side authentication to DoD private web servers. Unless otherwise specified, all key personnel on contract shall be accessible by e-mail through individual accounts during all working hours.

The contractor shall ensure any equipment/system installed or integrated into Navy platform will meet the cybersecurity requirements as specified under DoDI 8500.01. The contractor shall ensure that any design change, integration change, configuration change, or installation of hardware and software is in accordance with established DoD/DON/Navy cyber directives and does not violate the terms and conditions of the accreditation/authorization issued by the appropriate Accreditation/Authorization official. Contractors that access Navy IT are also required to follow the provisions contained in DON CIO Memorandum " Acceptable Use of Department of the Navy Information Technology (IT) dtd 12 Feb 16". Use of blacklisted software is specifically prohibited and only software that is registered in DON Application and Database Management System (DADMS) and is Functional Area Manager (FAM)

approved can be used as documented in para 4.2.2. Procurement and installation of software governed by DON Enterprise License Agreements (ELAs) such as Microsoft, Oracle, Cisco SmartNet, Axway, Symantec/Veritas, ActivIdentity, VMware, Red Hat, NetApp (future ELA), and EMC (future ELA) shall be in accordance with DON CIO and ELAs Policies.

The Contractor shall implement product authenticity measures that support Government efforts to avoid procuring counterfeit electronic devices and software products. Contractor product authenticity measures shall include traceability of the chain-of-custody, inspection, and testing of items in the system configuration.

The Government will consider counterfeit items to be any electronic device or software product that is either partially or wholly unauthorized copy, replica, or substitute for the device or product produced by the original equipment manufacturer (OEM) or software developer. At a minimum, the Government will consider the below items to be electronic devices and software products subject to Contractor demonstration of product authenticity:

a) Computer hardware, including personal computers, terminal devices, servers, input/output devices, storage devices, and peripheral devices;

b) Computer software, including commercial-off-the-shelf (COTS) and government-off-the-shelf (GOTS) software products, re-used software code, software custom-developed for the system by the Contractor or its subcontractors/suppliers/vendors, and any firmware embedded into the computer hardware items or other devices;

c) Any information assurance enabled devices, as defined by DoD Directive 8500.1.

5.1 Production Systems Engineering and Shore Installation Manager Support (OMN)

5.1.1 Production Systems Engineering
The Contractor shall provide the production systems engineering support services required to support the multiple shore and expeditionary C4I programs managed by PMW 790.

5.1.1.1 Prime Mission Product Engineering - Non-Developmental Items (NDI)
The Contractor shall provide prime mission production engineering support services to PMW 790 and/or Team SPAWAR for shore programs/projects as specified below.

5.1.1.1.1 The Contractor shall conduct production engineering analyses of selected or proposed product improvements of system of systems, production components and sub-systems in terms of system operability and interoperability, technical merit, and schedule risk. These evaluations shall include:

- System performance vs. product performance design
- Consistency and congruency with Joint external forcing functions
- Comparative functionality with Commercial-Off-the-Shelf (COTS) technology
- Validation of customer requirements vs. state-of-the-art applicability
- Production feasibility
- Maintainability and reliability impacts
- Deployability/transportability impacts
- Proposed design, testing and procurement changes
- Business Case Analysis (BCAs)
- White Papers

- Develop proposed Course of Actions and conduct analysis

All analyses will demonstrate mastery of subject matter being reviewed and address tradeoffs with respect to operational effectiveness and cost containment.

5.1.1.1.2 Contractor shall review and evaluate production design data and documentation with the intent of meeting PEO C4I/PMW 790, Team SPAWAR and Joint initiatives; prepare, test and technically evaluate engineering approaches, hardware and software applications, Engineering Changes; and conduct analyses of production feasibility and production operations, processes, and systems to correct deficiencies in the PEO C4I/PMW790 production items. The Contractor will work closely with PMW 790 APM-E and/or command designated by PMW 790 Assistant Program Managers (APMs) to ensure operational requirements are compatible with production. The review/evaluation work undertaken by the Contractor herein shall demonstrate mastery of subject matter being reviewed as well of the analytical techniques utilized by the Contractor.

5.1.1.1.3 The Contractor shall provide acquisition and production engineering support services necessary to support PMW790 and/or Team SPAWAR in accomplishing the acquisition, integration, and installation of C4ISR systems including:

- Review and evaluate acquisition data and documentation with the intent of meeting PEO C4I and Joint initiatives
- Develop project controls such as an IMS, EVM, or RMA
- Develop proposed project management plans, integration plans
- Identify potential risks
- Analyze selected or proposed system components and sub-systems in terms of design interface, survivability/vulnerability, deplorability and transportability, production engineering, and human engineering
- Develop or assess lessons learned from previous similar projects
- Assess acquisition and production feasibility
- Provide Integrated Product Team (IPT) and other technical meeting support as required
- Prepare and evaluate engineering approaches, hardware and software applications, and Enterprise Change Request

5.1.1.1.4 The Contractor shall provide the production engineering and technical support services necessary for production equipment layout, and engineering changes for Shore Integration programs or projects (to include MILCON/other projects of interest).

5.1.1.1.5 The Contractor shall provide the production engineering and technical support services necessary to oversee production processes across PEO C4I/PMW790 programs including inventory, distribution, and status reporting.

5.1.1.1.6 The Contractor shall provide the prime mission engineering and technical services required to support the PMW 790 enterprise with input into and oversight regarding CONUS and OCONUS production planning.

5.1.1.1.7 The Contractor shall provide prime mission engineering integration services to support PEO C4I program efforts to migrate voice to IP technology in telephony applications. The Contractor shall have a working knowledge of shore voice and data networks, including DoD certification and security requirements.

5.1.1.2 Hardware Engineering Services

5.1.1.2.1 The Contractor shall provide the hardware engineering support services necessary to develop, prepare and review appropriate interface specifications, integration plans and inputs, system level documentation such as: Installation Requirements Drawings (IRD), Installation Design Plans (IDP), Functional Interface Drawings (FID), System Operational Verification Tests (SOVT), Base Electronic System Engineering Plan (BESEP), Integrated Logistics Support Plan (ILSP) and User Logistics Support Summary (ULSS), and other related Integration/Installation required documentation. All documentation shall be provided to the requester by the agreed upon due date.

5.1.1.3 Production Configuration Control

5.1.1.3.1 The Contractor shall provide the production configuration control services required to support PMW790 procurement programs with analysis and technical recommendations for ensuring that the functional and physical characteristics of the production system are controlled and maintained consistent with applicable policies and directives. Analyses and technical recommendations shall be provided to the requester by the agreed upon due date.

5.1.1.3.2 The Contractor shall provide the production configuration control and technical services required to support test events for production integration testing. Provide applicable report to requester within the timeframe specified by the requester.

5.1.1.3.3 The Contractor shall develop or support the development of the As-Is and To-Be configurations of C4I platforms.

5.1.2 Shore Installation Manager Support

5.1.2.1 Installation Work Plan Requirement Support

5.1.2.1.1 The Contractor shall assess PEO C4I/PMW 790 Shore Fielding/Work Plans requirement definition as found in the SPAWAR/PEO Integrated Data Environment & Repository (SPIDER) installation database for completeness and quality of information to allow an estimate and proposed schedule to be prepared by the SSC FIO. This review shall be completed within 5 workdays of a requirement entering a Shore Installation Manager work queue. For Shore Fielding/Work Plans found to be incomplete or insufficient, the Contractor shall submit a recommended course of action to the Shore Installation Manager within 5 workdays of discovery. The contractor shall assess the PEO C4I/PMW 790 Shore Fielding/Work Plan for compliance with the 15 month rule IAW the PEO C4I Concept of Operations for Modernization Management policy and provide recommendations to the Shore Installation Manager.

5.1.2.1.2 The Contractor shall meet as required with product and platform program offices, Team SPAWAR, and Fleet Customers to characterize, coordinate, and resolve any issue impacting the readiness of an installation requirement to move the installation to the planning stage as defined below in paragraph 5.1.2.2. A summary of all work plan liaison's and outcomes will be included in the monthly report.

5.1.2.1.3 The Contractor shall assist the PMW 790 Shore Platform Baseline Manager, Shore Installation Manager, Shore Integration Platform Managers, SSC FRD Installation Office (FIO) and Regional Shore Installation Managers (RSIMs) to maximize the development of a logical grouping or consolidation of installations for the purpose of better control, improved cost efficiency, better coordination and reduced impact to customer. The Contractor shall review consolidation proposals received from Team SPAWAR

or a Fleet Customer for viability, cost, and schedule advantages. When there are no other proposed consolidation plans, the Contractor shall determine the viability/feasibility of a consolidation approach and make recommendations to the PMW 790 Baseline Manager, Shore Integration Platform Managers, SSC FIO and RSIMs. Reviews of consolidation proposals or new consolidation proposals shall be provided to the PMW 790 Baseline Manager, Integration Platform Managers, FIO, RSIMs, and affected Program Offices. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.1.2.1.4 The Contractor shall assist the PMW 790 Shore Baseline Manager, Shore Installation Manager, Shore Integration Platform Managers, SSC FIO and RSIMs in translating new requirements to the technical implementation teams, analyzing the work plan, and coordinating the setting of controlled availability windows at locations where 3 or more installations are planned, or where any install is planned that is valued at $500K or more, or where an install is determined to have a mission critical deadline. The availability windows must meet mission critical dates while avoiding any customer blackout periods and taking into consideration product availability. The coordination objective is to complete installations earlier in the year, facilitate consolidated installs, and give the customer better coordinated installations. The Contractor will proposed installation windows for all tasks in SPIDER meeting the above criteria shall be provided to the PMW 790 Modernization and Integration Manager and the SPAWAR FRD Shore Installation Manager prior to any installation planning meeting or conference. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.1.2.1.5 The Contractor shall assist the SPAWAR Shore Installation Manager in resolving discrepancies between PMW and Fleet Readiness Directorate Installation Office (FIO) cost estimates impacting Work Plan (4WP) approval. Documentation of cost estimate assessment, coordination, and reconciliation shall be provided to the Shore Installation Manager by the agreed upon due date and time.

5.1.2.2 Installation Execution Management Support

5.1.2.2.1 The Contractor shall provide support to the SPAWAR Shore Installation Manager as required in addressing corrections/recommendations of installation documentation including Installation Design Plans (IDPs), Base Electronic System Engineering Plans (BESEP), and other critical shore installation documentation as defined in the Shore Installation Process Handbook. The Contractor shall provide support to the Shore Installation Manager by the agreed upon due date and time. The Contractor will monitor PEO C4I and SSC shore installation business practices and proposed changes to PEO C4I and Team SPAWAR directives as directed by the PMW 790 Shore Installation Manager.

5.1.2.2.2 The Contractor shall provide advisory support to the Shore Installation Manager in order to track status of installation production, define issues, and provide guidance as required. The Contractor will ensure that all installations are accomplished in accordance with the PEO C4I CONOPS, the Shore Installation Process Handbook, installation standards, as well as statutory or regulatory requirements. The Contractor shall review weekly installation SITREPs for each installation, Weekly Activity Reports (WARs) and other correspondence which identifies or characterizes installation problems. The Contractor shall also identify and provide recommendations for resolution of identified installation issues to the Shore Installation Manager by the agreed upon due date and time.

5.1.2.2.3 The Contractor shall provide PMW 790 systems expertise and program knowledge, closely coordinating with all the installation performing organizations to review and monitor estimates and actual costs, planned and actual schedules, and solve installation issues. As required the Contractor shall also enter and maintain scheduled availability periods for planned installations. Scheduled

availability/installation data will be updated as requested by an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.1.2.3 Installation Management Closing Support

5.1.2.3.1 The Contractor shall work closely with the SSC FRD Installation Office (FIOs) and RSIMs to track the completion status of installation SOVTs. The Contractor shall make inquiries with the performing SSC as to SOVT incomplete work items, Installation Completion Reports (ICRs), customer installation acceptance, delivery of as-built drawings to the site, and insertion of all installation deliverables into the approved SPAWAR shore repository.

5.1.2.3.2 The Contractor shall provide liaison services with PEO C4I program offices, Fleet customers, RSIMs and the SSC FIO to characterize, coordinate, and resolve any issue impacting the final closeout of an installation requirement. The Contractor shall summarize all installation closeouts in the monthly report.

5.1.2.4 Installation Performance Tracking & Reporting

The Contractor shall implement installation performance tracking strategies and reporting metrics for the purpose of monitoring and keeping PMW 790 and Team SPAWAR aware of installation progress. Strategies and processes for daily monitoring, controlling, and reporting requirement, cost, and schedule changes shall be implemented by the Contractor. Installation database mining, analysis, and metrics shall be required. Installation database entries and identifying/documenting corrections of requirements as found in the installation database shall be required. Quarterly detailed reviews shall be planned and coordinated by the Contractor in support of the Shore Installation Managers at SSC Atlantic and SSC Pacific locations at which each open installation shall be reviewed for progress and action required to bring it to completion and closure. The Contractor shall assist the Principal Shore Installation Manager in the conduct of installation Compliance Reviews, investigations and evaluations as required. The Contractor will compile Compliance Review reports, lessons learned, and investigation and evaluation documents as required. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.1.2.5 Installation Shore Readiness Review (ISRR) Fleet Readiness Control Board (FRCB) Installation Administration and Support

5.1.2.5.1 For NDI, the Contractor shall coordinate ISRR/FRCB activities and collect required pre-installation and acquisition documents supporting installation readiness including:

- Standard System/Architecture Design Plan (SIPH App C) Drawings
- Pre-installation testing reports/results such as DT, OT, JITC, TTIC, IV&V
- Applicable certifications that tie to the appropriate command such as CCB, JITC, NCTSI
- Security certification and accreditations such as SSAA, C&A, IATOs/ATOs, IATTs
- SPAWAR Preparation and Execution Guide (SPEG) compliant System Operational Verification Tests (SOVT) (Site Acceptance Test)
- Risk Identification and Mitigation Plan (SIPH App E)
- Initial ILSP
- Initial User Logistics Support summary (ULSS) (Alternate to ILSP)
- Base Electronic Systems Electronic Plans (BESEPs)
- Installation Design Plans (IDPs)

The Contractor shall collect the required documentation and ensure the FRCB file is complete and current. All documents shall be reviewed for accuracy, and the Contractor shall coordinate discrepancy corrections through the appropriate organization. All documents shall be filed by the agreed upon due date and time.

5.1.2.5.2 The Contractor shall review documents collected under paragraph 5.1.2.5.1, evaluating both risk to operations and readiness to initiate installations. The Contractor shall submit the completed evaluations to the SPAWAR FRD designated FRCB Representative by the agreed upon due date and time. The Contractor shall make corrections to the evaluations as directed by the FRCB Representative.

5.1.2.5.3 The Contractor shall propose a resolution to issues discovered during the document evaluation, and coordinate the proposed resolution through NAVIFOR and Team SPAWAR for approval. The Contractor shall keep the SPAWAR FRD FRCB Representatives informed of any issue status no less than weekly until the issue is resolved.

5.1.2.5.4 The Contractor shall track and provide progress and status of installations metrics for the FRCB processing. As directed by the SPAWAR Shore Installation Manager or other designated government authority, the Contractor shall prepare, distribute and present these metrics in the government assigned format, ensuring SPAWAR FRD position is correctly represented/supported within the required timeframe. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2 Logistics Management Services, System Engineering/Installation Documentation Support, and Shore and Expeditionary Integration/Planning/Requirements Support (OMN)

5.2.1 Logistics Management Services

5.2.1.1 Integrated Logistics Support Management

5.2.1.1.1 The Contractor shall provide Integrated Logistics Support (ILS) subject matter expertise and logistics management interface and support at both scheduled and unscheduled PMW 790 staff meetings. The Contractor shall perform a broad range of duties that include analysis and coordination of the logistical functions of the PMW790 organization and product lines in support of Integrated Logistics Support Management Team (ILSMT), program reviews, System Readiness Reviews (SRRs), and Logistics Supportability Analysis (LSA)/ Integrated Logistics Assessments (ILAs).

5.2.1.1.2 The Contractor shall support PMW 790 program data calls and the development, update, and review of program ILS schedules, action item trackers, installation schedules, briefs/presentations, development of meeting minutes, and trip reports relating to scheduled and unscheduled meetings. Additionally, the Contractor shall support PMW790 directed training events, working groups, and meetings as directed by Assistant Program Manager (APM) or Assistant Program Manager Logistic (APM-L). The Contractor shall support the APM/APM-L in: weekly staff meetings; monthly ILSMTs, quarterly PMCRs at vendor facilities; quarterly PMW 790 program reviews; and APM program planning sessions, working groups, financial reviews, and IPTs. The Contractor shall perform this task in accordance with the specific assignments and prescribed formats and timeframes determined by the PMW 790 APM/APM-L and in accordance with established policies and procedures identified in Section 4.0 of this PWS. All documentation shall be provided to the authorized requester/APM-L or APM by the agreed upon due date.

5.2.1.1.3 In support of Navy Expeditionary Combatant Command (NECC) and Navy Expeditionary Program Office (NEPO), the Contractor shall coordinate the processes required to develop, modify, maintain and manage Table of Allowance (TOA) requirements. The Contractor shall provide life cycle support for PMW 790 related expeditionary products including acquisition, distribution, procurement, integration, fielding, systems training, configuration management, information assurance, logistics management, refurbishment, storage and allocation, delivery and final disposal of resources for C4I equipment and products. Prepare and implement maintenance schedules using Planned Maintenance System (PMS) software. Assist in completing PMS on communication suites, track and record preventive maintenance checks and prepare weekly/monthly maintenance completion reports. Write technical reports and develop charts, graphs, and schematics to describe and illustrate system's operating characteristics, malfunctions, deviations from design specifications, and functional limitations for consideration by engineers in broader determinations affecting system design and laboratory procedures. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.2 Logistics Support Documentation

5.2.1.2.1 The Contractor shall provide the logistics support management services necessary to assist in developing, updating, and reviewing PMW 790 program documentation, which includes:

- Monthly ILS status reports
- Monthly Integrated Logistics Support Management Team (ILSMT) meeting minutes
- Logistic Requirements Funding Summary (LRFSs)
- Work Breakdown Structure (WBS) work packages; sparing lists & plans; acquisition & logistics policies/ directives/ instructions; program logistics schedules
- ILS budgeting & spend plan documents; program briefs/ presentations
- Sensitivity and uncertainty analyses, and
- Time phasing; metrics tracking and external reporting requirements

This effort shall be performed across all program variants and documents and shall adhere to established PMW 790 formats and standards, as well as applicable SPAWAR 4.3.1 policies and procedures. Acceptable documents shall be technically accurate and free from grammatical errors. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.2.2 The Contractor shall provide the logistics support management services necessary to assist in developing, updating, and reviewing support program acquisition Milestone (MS) Independent Logistics Assessment (ILA) certification requirements. Specifically, the Contractor shall:

- Develop Independent Logistics Assessment (ILA) document packages and kick-off presentations
- Develop ILSP
- Develop Logistics Requirement Funding Summary (LRFS)
- Develop Diminishing Manufacturing Sources and Material Shortages (DMSMS) Plan
- Develop ULSS

Contractor support shall be IAW SECNAVINST 4105.1A (Independent Logistics Assessment (ILA) And Certification Requirements) and adhere to established PMW790 formats and standards, as well as applicable SPAWAR 4.3.1 policies and procedures. All documentation shall be provided to the requester/APM-L or APM by the agreed upon due date.

5.2.1.3 Supply Support

5.2.1.3.1 The Contractor shall provide the logistic supply support, subject matter expertise, and management expertise required to support PMW790 in the areas of:

- Readiness Based Sparing (RBS) Analysis
- Identification and procurement of spares parts
- Allowance Part List/Allowance Component List (APL/ACL) maintenance
- Review of Provisioning Technical Documentation (PTD)
- Asset visibility & tracking; alternative spares planning, and
- Fleet/ NAVICP/ PMW data calls

This effort requires interfacing with NAVICP and NAVSEALOGCEN contacts and all tasks shall be completed in compliance with SPAWAR 4400 series instructions, NAVSUP P485, and standard NAVSUP/ NAVICP policies & directives. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.3.2 The Contractor shall provide support services required to track monthly the delivery status of PMW 790 & NAVICP vendor spares buys; and to develop the required On-Board Repair Parts (OBRP), installation & checkout (INCO), and Depot spares procurement orders IAW with the performance & delivery specifications of each program's respective procurement contract. This effort requires interfacing with NAVICP and NAVSEALOGCEN contacts and all tasks will be completed in compliance with SPAWAR 4400 series instructions, NAVSUP P485, and standard NAVSUP/ NAVICP policies & directives. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.3.3 The Contractor shall provide the supply support services necessary to: perform monthly maintenance and semi-annual updates of all PMW 790 Program Support Data (PSD) sheets utilizing the PSD Automated Reporting & Tracking System (PARTS) online database (https://parts.navsea/Intro.htm/); develop and maintain additional PSD sheets, as required, to support new PMW 790 acquisition requirements, as well as ECs/ FCs. PSDs are to be maintained IAW the NAVSEA PARTS User Manual and PSD Desktop Guide and shall be free of mathematical and technical errors. Updates shall be completed twice per year in support of the February and October N4 Baseline Assessment Memorandum (BAM) reviews and shall include archiving of PSDs when required. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.3.4 The Contractor shall provide the logistic supply services necessary to support PMW 790 PBL-Organizational (PBL-O) and PBL-Contractor (PBL-C) strategy and planning meetings at PBL provider facilities. This task shall be accomplished according to APM/APM-L and/or PMW 790 direction and IAW PEO C4I INST 4081.1.

5.2.1.3.5 The Contractor shall support all PMW 790 installations by providing the equipment testing services required to coordinate the submission of Test Equipment line items into the Test and Measurement Diagnostic Equipment Requirements (TMDER) database. All work will be conducted IAW NSWC procedures. TMDER submissions shall be technically accurate, adhere to the format and due dates specified by the PM, and comply with the performance requirements set forth in directives listed in Section 4.0 of this PWS.

5.2.1.4 Manpower, Personnel & Training

The Contractor shall coordinate and track the approval of the final Equipment Facility Requirement (EFR) Phase III agreement(s) for the transfer of training responsibility of Navy Communications

Technical Training Equipment (TTE) installed at FLETRACENs San Diego, Norfolk and NAVSUBSCOL Groton IAW OPNAVINST 11102.1. In addition, the Contractor shall utilize OPNAVINST 1500.76, SPAWARINST 1500.1 & 1500.2, DoDINST 5000.2, and PMW 790 direction and practices, to support both program office and Fleet training data calls, meetings and action items. These will include: as required interim/factory/OJT/ formal training implementation, conduct & scheduling data calls; quarterly Human Systems Integration (HSI) planning and implementation meetings; monthly review and update of PMW 790 Integrated Battle Force Training (IBFT) requirements; weekly review of SPAWAR 4.3.1 Human Analysis Requirements Planning System (HARPS) threaded discussions for PMW 790 Navy Training System Plans (NTSPs); as required reviews of Navy Communications training materials & courseware; and the review/ updating of PMW 790 "front-office" training briefs & presentations. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.4.1 The Contractor shall provide tracking and monitoring services required to expedite services for all Casualty Reports (CASREPs) and emergent items on all PMW790 programs.

5.2.1.4.2 The Contractor shall provide the tracking and monitoring services necessary to assist PMW790 managers in coordinating alternatives and plans to resolve prioritized CASREPs. The Contractor shall, on a daily basis, screen, review, and analyze CASREP tracking reports and databases. Specific task performance will be conducted in accordance with the requester's instructions. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.1.4.3 The Contractor shall provide the logistics supply services required to support program reviews and supply working group meetings at vendor facilities, including reviewing of Provisioning Technical Data (PTD) packages. Meeting comments and recommendations shall be provided to the Program Manager, or designated alternate. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.2 System Engineering/Installation Documentation Support
The Contractor shall support PMW 790 as the technical Subject Matter Expert (SME) for all required installation deliverables (shore installation related drawings, test documents, information assurance documents, logistics documents, etc.). The contractor shall provide hardware support (using the established Maintenance & Material Management (3M) schedule and/or modifications) by locating and gathering equipment due for Preventive Maintenance (PM) actions from the warehouse; initiate PM actions IAW the applicable 3M Maintenance Repair Cards (MRCs); analyze the results of maintenance actions; diagnose probable cause of failure; remove and repair authorized faulty parts; perform post repair checkout and attempt to verify compliance with the applicable MRC action; conduct pre-installation test if appropriate; and return completed items to their appropriate warehouse location. Analyses, technical recommendations and execution status shall be provided to the requester by the agreed upon due date and time.

5.2.2.1 Installation Requirements Drawing Support
The contractor shall provide support services necessary to develop, update and review Installation Requirements Drawings (IRD) technical content and format to support the approval process for commencement of installation execution. In accomplishing the update and review, The contractor shall adhere to the established SPAWAR IRD standards, formats and processes as well as the drawing standards established in the current approved version of the Shore Installation Process Handbook (SIPH V 4.0). All IRDs shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.2.1.1 The contractor shall support IRD AutoCAD design, development, evaluations, and audits, contributes and assist with the proposal of IRD policy and process improvements. The contractor shall document all audit results and recommended improvements providing them to SPAWAR FRD Shore Principal Installation Manager for final review and acceptance.

5.2.2.1.1.1 The contractor shall assist with comprehensive technical analyses of all IRDs submitted to PMW 790 for review and comment. Attends IRD review meetings requested by other Product and Platform PMWs. Technical analysis and drawing development services are compliant with PEO C4I and SPAWAR document/drawing standards, repository requirements, drawing tools, review and approval processes, as well as System Center's drawing standards as defined in Appendix "Q" of the Shore Installation Process Handbook (SIPH). The contractor shall submit completed drawings and analysis within the program/project Integrated Master Schedule (IMS) required timeframe. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.2.2 Installation Design Plans Support and As-Built Drawing Support
The Contractor shall provide the technical support services necessary to create/develop, update and review Installation Design Plans (IDP) and As-Built drawings to support the approval process for commencement of installation execution. All Contractor submitted updates and reviews shall adhere to the established SPAWAR IDP standards, formats and processes as well as the drawing standards established as defined in Appendix "Q" of the Shore Installation Process Handbook (SIPH). The contractor shall utilize available IRD drawings, systems, tools and databases to analyze, upload/download, and update information in Naval Systems Engineering Resource Center (NSERC) and SPAWAR PEO C4I Integrated Database Environment Repository (SPIDER).

5.2.2.2.1 The contractor shall provide PMW 790 technical drawing support consisting of reviews or development of Installation Design Plans (IDPs), As-Built drawings, and drawing retention tools. This support consists of contributing to, creating/developing, integrating, implementing, validating and applying consistent new processes for the creation, approval, and preservation of shore drawings that use the IDP format. When required, the contractor shall assist with site survey assessments for ensuring drawing plans will capture all equipment, power, footprint, locations etc. sight specific location details and associated elements requirements to meet IDP compliance standards for drawing accuracy and completeness. Further, the contractor shall contribute to the development, implementation, integration, and applying new processes for the creation, approval, and preservation of the C4I customer site IDP and As-Built drawing packages that are developed, approved, and archived in compliance with the SPAWAR Shore Installation Process. The contractor shall support audits and compliance reviews of completed IDPs and As-Built drawings to ensure adherence with existing PEO C4I and SPAWAR SIPH directives and policies. The contractor shall complete and submit assigned work products according to the format and within the agreed upon due date and time.

5.2.2.2.2 Functional Interface Drawing (FID) Drawing Support
The contractor shall accomplish FID development, updates and reviews in accordance with Functional Interface Diagram (FID) Design Manual (Version 1.0), dated 4 Mar 2010. The contractor shall perform Configuration Validations (CONVALs) of C4I systems by way of site visits to various Shore facilities that include, but are not limited to; U.S. Naval Computer and Telecommunications Stations (NCTSs), Naval Computer and Telecommunications Area Master Stations (NCTAMSs), Maritime Operations Centers (MOCs), and other major sites as directed by PMW 790. The contractor shall coordinate and collaborate with the CONVAL reservist teams and shore site personnel to schedule and execute FID site

surveys to include PMW-790 and other SPAWAR platform and product codes. FIDs shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.2.3 Master Drawing Sets, Develop/ Design & Review
Develop/Design and Review Site Specific Master Drawing Set (IDP and/or As-built) In Support of C4I Integration for MILCONs and Special Projects. The contractor shall develop Master Drawings for MILCON related C4I installation projects that involve the installation and integration of multiple systems. These Master Drawings shall be in accordance with the guidelines described in Appendix Q of the Shore Installation Process Handbook section 3.3. Copies of all drawings shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3 Shore and Expeditionary Integration/ Planning/Requirements Support
The Contractor shall provide shore integration planning and requirements support to Shore Platforms for all C4I products.

5.2.3.1 C4I Product Planning and Post Installation Support
The Contractor shall coordinate with Team SPAWAR and other commands as necessary concerning enterprise wide C4I product site specific planning and post installation oversight. The Contractor shall provide support at/for both scheduled and unscheduled technical conferences, program reviews and System Readiness Reviews (SRRs) concerning planning, installation and execution of PEO C4I/ PMW 790 integration efforts and initiatives. The Contractor shall support data calls, and the development, updates and review of program acquisition and installation schedules, action item trackers, briefs, presentations, technical reports, meeting minutes, and trip reports related to these activities, meetings and conferences. The Contractor shall perform the above tasks in accordance with the specific assignments and prescribed formats and timeframes determined by PMW 790 Principal Shore Installation Manager and in accordance with established Team SPAWAR and PEO C4I policies and procedures.

5.2.3.1.1 The Contractor shall coordinate with appropriate Advance Planners and conduct analysis of the PEO C4I Master Plan, the PEO Roadmap, Objective Baselines, C4I Builds, Product Manager acquisition product development/maturity plans and CAPS/SPIDER data. The intent of this analysis will be to support the PMW 790 Baseline Manager efforts to develop managed, executable Baseline Plans that identify standalone installations, products requiring integration testing and validation and confirm installation PMW Start/End Dates and/or the assignment of standalone installations/integrated installations to shore "Windows of Opportunity" or to ship "Availability Periods." All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3.1.2 The Contractor shall be an active participant in the technical configuration control boards for each of the enterprise tools to include:

- SPIDER
- CE Tracker Cost Estimating Tools
- SPIDER – Technical document repository
- C4I Advanced Planning Suite (CAPS)
- Electronic Command Information Center (ECIC) – SPAWAR knowledge Portal
- Naval Tool for Interoperability Risk Assessment (NTIRA)
- NAVSEA Data Environment – Navy Modernization (NDE-NM)
- CDMD-OA
- CISN Management & Analysis Training Tool (CMATT)
- Information Assurance Tracking System (IATS)
- Risk Exchange

- CMPRO

The Contractor shall submit and track SPIDER Change Requests (SCR), assist in capturing process requirements and data attributes for the technical teams and communicate this to the configuration control board. The Contractor shall also assist in documentation, user testing and user training in support of the enterprise tools implementation.

5.2.3.1.3 The Contractor shall provide guidance on the use of the SPAWAR Shore Installation Process Handbook. The Contractor shall provide guidance and support to the Shore Principal Installation Manager to resolve reported issues on the application of the SPAWAR Shore Installation Process Handbook. The Contractor shall document all reported issues, research and provide recommendations to assist the Principal Shore Installation Manager as directed ensuring that reported issues are resolved in a timely manner. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3.1.4 The Contractor shall coordinate FRCB installation administration, operation, processing and policies with PMW 790, SPAWAR HQ, and other commands as necessary. The Contractor shall coordinate all support through the SPAWAR FRD Shore TPOC for approval, and summarize the month's activities in the monthly report (CDRL A001).

5.2.3.1.5 The Contractor shall provide expert guidance on FRCB process to Team SPAWAR. The Contractor shall assist with preparation and modification of SPAWAR FRD FRCB Standard Operating Procedures (SOPs) and Tutorials in the format designated by the FRCB Representative or other government authority. The Contractor shall publish and distribute approved SOPs and Tutorials as directed. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3.1.6 The Contractor shall maintain FRCB status for all Naval Shore installation tasks in SPIDER.

5.2.3.1.7 As a related concern, the Contractor will assist the Shore Principal Installation Manager in developing and preparing documentation needed to support training and presentations pertaining to shore installations. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3.1.8 The Contractor shall provide guidance on the application of sound project management processes to installations to include: creating a Work Breakdown Structure (WBS); performing a Critical Path Analysis; developing a risk management plan to identify, characterize and manage risk; developing and implementing Shore Installation Process Handbook compliant Earned Value Management System (EVMS) protocols; developing Integration Plans and Integrated Master Schedules (IMS); controlling requirements growth; and developing and maintaining configuration controls. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3.2 Fielding Plan Support
The Contractor shall coordinate all PMW 790 Technical Support Activities including fielding recommendations for PEO C4I and C4I products of other organizations.

5.2.3.2.1 The Contractor shall assist and provide oversight for the implementation of all PEO C4I fielding/work plans. The Contractor shall perform the above tasks in accordance with the specific assignments and prescribed formats and timeframes determined by PEO C4I/PMW 790 Shore Principal

Installation Manager and in accordance with established SPAWAR HQ and PEO C4I policies and procedures.

5.2.3.2.2 The Contractor shall analyze and provide recommendations, analyses, and other inputs as required concerning application of the existing process that bridges Advance Planning to Installation Planning to Execution where the Shore Installation Products are driven from the C4I Advanced Planning Suite (CAPS) to implementation by PMW 790 and the Fleet. These analyses and recommendations shall include further/ proposed/ recommended development(s) to the existing process and any proposed/recommended new processes. These analyses will also include identification, development and implementation of a stronger link(s) between SPIDER/CAPS, NTIRA, NDE and the CDMD-OA installation planning tools/data repositories. As directed by PMW 790, the Contractor shall assist in the modification, development, implementation and application of required bridging processes and links. The Contractor shall perform the above tasks in accordance with the specific assignments and prescribed formats and timeframes determined by PMW 790 and in accordance with established PMW 790 and PEO C4I policies and procedures. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.2.3.3 Configuration Management Support
The Contractor shall interact with PMW 790 Configuration Manager (CM) Team to ensure integrity of PEO C4I Configuration Management data bases. The Contractor shall support/provide data calls, action item trackers, briefs, presentations, technical reports, meeting minutes, and trip reports related to scheduled and unscheduled CM and IPT related activities, meetings and conferences. The Contractor shall perform the above tasks in accordance with the specific assignments and prescribed formats and timeframes determined by PEO C4I and/or PMW 790 and in accordance with established SPAWAR policies and procedures. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.3 Special Projects Program Management (OMN)
The C4I system installation efforts in conjunction with MILCON projects or other special projects are coordinated and managed by PMW 790. Large MILCON projects can take a number of years from initiation to completion and the planning for new systems installations or system relocations can take three to five years depending on the size and complexity of the project. Relocation efforts for the NCTAMS or other large buildings can involve the integration of dozens of C4I systems and require coordination with multiple agencies within and outside the Navy.

The contractor shall support the management of C4I Integration and Installation efforts in conjunction with MILCON projects. The PMW 790 contractor may be tasked to provide system engineering, technical analysis, project management, and/or design support throughout the entire scope of any MILCON related C4I design and installation effort.

5.3.1 The Contractor shall provide support to project managers for all C4I integration and installation in support of MILCONs and Special Projects as described in 5.3. These efforts will be managed by PMW 790 and/or SPAWAR. The Contractor shall /provide support for data calls, updates and reviews of program acquisition and installation schedules, action item trackers, and technical reports. The Contractor shall perform the above tasks in accordance with the specific assignments, prescribed formats, and timeframes as determined by SPAWAR and/or PMW 790 in accordance with established SPAWAR and PEO C4I policies and procedures. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.3.1.1 The Contractor shall track the progress for all C4I integration and installation in support of MILCONs and Special Projects by establishing and using project controls. These project controls may include but not limited to the development, analysis and maintenance of tools such as IMS, EVM, and RMA. The Contractor shall ensure analysis data is supportable and defendable by applying sound analytical discipline and rationale and shall be submitted within the timeframe and format prescribed by the customer requirements or as modified per unique SPAWAR and/or PMW 790 requirements.

5.3.1.2 Facility Requirements Identification. The contractor shall support the identification of facility requirements for C4I systems installation and integration through the appropriate analysis of the project's characteristics, review of the applicable systems, and preparation of a MILCON related Base Electronic System Engineering Plan (BESEP). Individual studies and analysis efforts may be required to verify the requirements and provide comments in the facility design phase to ensure that key design factors are adequately addressed including physical space layouts, rooftop or platform accommodations for antennas, floor and ceiling characteristics, power, heating, ventilation, air conditioning, cableways, lighting, grounding, security, and environmental systems. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.3.2 Supporting Key MILCON C4I Review Events. The contractor shall provide documentation support for the effective PMW 790 participation in installation design review events for all C4I integration and installation in support of MILCONs and Special Projects. These events include NAVFAC building design reviews and reviews for requirements, design, installation planning, and installation readiness of C4I systems. Each of these events has separate documentation requirements including design review comments, plans, technical designs, integrated master schedules, budget exhibits, and other items. The contractor shall support the PMW 790 MILCON project lead by developing or reviewing the key documents required for each event. Lists and descriptions of the typical MILCON related C4I installation documentation requirements are contained in the Shore Installation Process Handbook (COMSPAWAR M-4720.1) in Section 10 and Appendix Y. All documentation shall be provided to an authorized government (task sponsor or delegate) requester by the agreed upon due date and time.

5.3.2.1 The Contractor shall create technical documentation, including program briefings and issue papers to support the requester's position on PMW790 products. The Contractors shall ensure all documentation is accurate, free of errors and submitted to the requester in sufficient time to allow for review and update as needed. All documentation shall be provided to the requester by the agreed upon due date and time.

5.3.2.2 The Contractor shall analyze program documents and data to create documents, briefs, informal and formal program reviews and white papers to support PEO C4I program goals and objectives. The Contractor shall create and submit all documentation to the requester by the agreed upon due date and time.

5.3.2.3 The Contractor shall coordinate and participate in inter- and intra-agency Integrated Product Team (IPT) meetings, audits, conferences, working groups, program reviews, and other meetings as required. The Contractor shall prepare and obtain requester's approval for materials and briefs/documents to be used when assigned as an active participant or in a supporting role. The Contractor shall take minutes and notes when attending as an observer and submit a meeting summary to the requester within two business days of the meeting.

5.3.2.4 The Contractor shall provide engineering, technical, and integration analyses necessary for obtaining PEO C4I implementation objectives for the required shore sites. The Contractor shall submit the supporting analyses and documentation to the program authority in accordance with the requested submission schedule.

5.3.2.5 The Contractor shall provide engineering support to the requester on PEO C4I systems installed or planned for installation. The Contractor shall assist the requester as assigned with program documentation and analyses for planning, implementation, and inter-command coordination of shore and expeditionary systems shore sites. The Contractor shall create the required documentation in accordance with the appropriate installation directives and manuals in Section 4.0.

5.3.2.6 The Contractor shall provide development and evaluation of project technical design data, system drawings, test reports, requirement traceability matrices, reports, and analyses to ensure technical requirements are met. Evaluation reports shall be submitted in writing, identifying requirement shortfalls if any, and include suggested remedies within the requested timeframe.

5.3.2.7 The Contractor shall develop and maintain Integrated Master Schedules (IMSs) for each MILCON related installation project or Special Project. Each IMS shall reflect key process approvals such as IA accreditations, design approvals, or connectivity approvals as well as specific dates for material delivery, system installation, testing, and system turnover.

5.4 Shore Installation Manager Support for Major Procurements (OPN)
The Contractor shall provide the production systems engineering, logistics, and installation management services as described in sections 5.1, 5.2, and 5.3 that are required to support major procurement installations or multiple system installations which will be centrally managed and funded by OPN funding. The installation management support for major procurement installations will consist of the full spectrum of systems engineering, logistics management, and MILCON related or Special Project development, integration, and installation for shore site projects as required.

5.5 Shore Installation Manager Support for Research Projects or Test Sites (RDT&E)
The Contractor shall provide the production systems engineering, logistics, and installation management services as described in sections 5.1, 5.2, and 5.3 that are required to support major research projects and/or test site implementations funded by RDT&E funding. The installation management support for research projects or test site installations will, when required, consist of the full spectrum of systems engineering, logistics management, and MILCON related or Special Project development, integration, and installation for shore site projects.

6.0 DELIVERABLES

Program specific deliverables are described and identified in Section 5.0 sub paragraphs. Non-program specific deliverables are listed below. The Contractor shall provide the following deliverables within the timeframe specified:

Products/Deliverables	Due Date
Monthly Status Reports (MSR) – CDRL A001 identify all work accomplished, planned, issues/resolution options and financial status for each 5.0 Performance Requirement sub task. The report shall include: Planned amount, Funded amount, Expended amount to date and planned Burn Rate to task completion and any cost savings per sub-paragraphs under 5.1, 5.2, and 5.3 (paragraph level by Appropriation and by Program/Project). The Contractor shall provide an Employee Master Report which identifies all prime and subcontractor employees' charging to the PWS, Labor category, PWS sub-paragraphs (under 5.1, 5.2, and	15th of each month

5.3) supported and percentage of time charged, Common Access Card (CAC) status, and if applicable, a GFE/GFI Inventory Listing. The Contractor shall conduct a meeting with the Government Clients to review the Monthly Status Report as requested by the COR.	

7.0 SECURITY

The work performed by the Contractor will include access to Secret data, information, and spaces. The Contractor will be required to attend meetings classified at Secret level. Additional information can be found in the Contract Security Classification Specification (DD 254).
If foreign travel is required, all outgoing Country/Theater clearance message requests shall be submitted to the SSC SD foreign travel team, OTC2, Rm 1656 for action. A Request for Foreign Travel form shall be submitted for each traveler, in advance of the travel to initiate the release of a clearance message at least thirty-five (35) calendar days in advance of departure. Each Traveler must also submit a Personal Protection Plan and have a Level 1 Anti-Terrorism/Force Protection briefing within one year of departure and a country specific briefing within ninety (90) calendar days of departure.

7.1 Operations Security Requirements
All work is to be performed in accordance with DoD and Navy Operations Security (OPSEC) requirements and in accordance with the OPSEC attachment to the DD 254.

7.2 Personnel Security
The contractor shall comply with DoD Directive 8500.1, "Information Assurance (IA)," DoD Instruction 8500.2, "Information Assurance (IA) Implementation," DoD Directive 5400.11, "DoD Privacy Program," DoD 6025.18-R, "DoD Health Information Privacy Regulation," and DoD 5200.2-R, "Personnel Security Program Requirements."

Contractor responsibilities for ensuring personnel security include, but are not limited to, meeting the following requirements:

- Initiate, maintain, and document personnel security investigations appropriate to the individual's responsibilities and required access to the system.
- Immediately report and deny access to any AIS, network, or information if a contractor employee filling a sensitive position receives an unfavorable adjudication, if information that would result in an unfavorable adjudication becomes available, or if directed to do so by the appropriate Government representative for security reasons.
- Ensure that all contractor personnel receive IA training before being granted access to DoD AISs/networks, and/or information.

The contractor shall comply with DON CIO MSG DTG 171952Z APR 07 to ensure that all Personally Identifiable Information (PII) is properly safeguarded. This requirement under the E-Government Act of 2002 mandates that all PII be adequately protected. In addition, systems processing PII must have completed a Privacy Impact Assessment (PIA) and register that PIA with DON CIO.

Wireless Technologies:
Wireless technologies include, but are not limited to, Wireless Local Area Networks (WLANs), Wireless Personal Area Networks (WPANs), and Wireless Portable Electronic Devices (PEDs). While improving productivity and providing greater flexibility for employees, these technologies, if not properly secured, can also introduce significant security vulnerabilities that may jeopardize the confidentiality, integrity, and/or availability of systems, networks, and data.

Restrictions on the use of wireless technologies. The Government systems, networks, or data shall NOT be connected to or placed on Contractor systems or networks that utilize wireless technologies, unless the following conditions are met:

- The Contractor shall ensure that all wireless technologies are procured, configured, and maintained in accordance with applicable DoD and DoN wireless policies and configuration guides (e.g., DISA Security Technical Implementation Guides (STIGs)), or with comparable accepted and documented commercial best practices.
- The Contractor shall demonstrate to the Government that their wireless technologies are in compliance with the policies and standards referenced above.

Incident Response:
The Contractor shall provide an incident response plan test report documenting results of incident reporting process per NIST 800-53A Revision 4, Assessing Security and Privacy Controls in Federal Information Systems and Organizations.

Timely detection of and rapid response to suspected or confirmed security incidents are essential in order to identify and contain any breach to IA. DoD and DoD contractors share similar risks and face similar threats, and the timely notification of incidents (suspected or confirmed) and sharing of relevant and actionable threat information are essential to assure mutual protection of systems, networks, and data. Identification of threats is documented in IA Strategies and SSAAs, updated as threat vectors evolve. Basic incident response plans are part of the SSAA and should encompass all levels of threat, both natural and man-made.

Incident Notification:
The Contractor shall notify the Government within 24 hours in the event of a confirmed security incident, or within 48 hours of a suspected security incident, that impacts or potentially impacts Government systems, networks, or data.

The Government shall notify the Contractor within 24 hours in the event of a confirmed security incident, or within 48 hours of a suspected security incident, that impacts or potentially impacts the Contractor's systems, networks, or data.

The Contractor and Government agree to share information regarding any security incident sufficient to:

- The Contractor shall identify the cause of the security incident (i.e., attack vector and methodology).
- The Contractor shall identify the technical or procedural vulnerabilities that allowed the incident to occur.
- The Contractor shall identify any unauthorized actions taken with respect to the relevant systems, networks, or data in question.
- The Contractor and Government shall mutually agree upon actions and other measures taken to mitigate vulnerabilities associated with the incident and to ensure that similar incidents do not recur.

Information Systems (IS) / Networks Physical Security:
The Contractor shall employ physical security safeguards for IS/Networks involved in processing or storage of Government Data to prevent the unauthorized access, disclosure, modification, destruction, use, etc., and to otherwise protect the confidentiality and ensure use conforms with DoD regulations. In

addition, the Contractor will support a Physical Security Audit (PSA) of the contractor's internal information management infrastructure, performed by the Government. The Contractor shall correct any deficiencies of the contractor's physical security posture identified by the Government.

The contractor shall provide adequate security for all unclassified DoD information passing through non-DoD information system including all subcontractor information systems utilized on contract. The contractor shall disseminate unclassified DoD information within the scope of assigned duties and with a clear expectation that confidentiality is preserved. Examples of such information include the following: non-public information provided to the contractor, information developed during the course of the contract, and privileged contract information (e.g., program schedules, contract-related tracking).

7.3 Information Assurance and Personnel Security Requirements for Accessing Navy Enterprise Resource Planning (ERP) Management System

7.3.1 Contractor personnel assigned to perform work under this contract may require access to Navy Enterprise Resource Planning (Navy ERP) System. Prior to accessing any Navy ERP System, Contractor personnel shall contact the applicable Navy, Marine Corps Internet (NMCI), Assistant Customer Technical Representative (ACTR) and obtain an NMCI account. ACTRs can be found on the NMCI Homeport website at: https://nmcicustomerreporting/CTR_Lookup/index.asp. Once an NMCI account has been established, the Contractor shall submit a request for Navy ERP access and the role required via the Contracting Officers Representative (COR) to the Competency Role Mapping POC. The COR will validate the need for access, ensure all prerequisites are completed, and with the assistance of the Competency Role Mapping POC, identify the Computer Based Training requirements needed to perform the role assigned. Items to have been completed prior to requesting a role for Navy ERP include: Systems Authorization Access Request (SAAR-N), DD Form 2875, Oct 2007, Annual Information Assurance (IA) training certificate and SF85P.

7.3.2 For this procedure, reference to the COR shall mean the PCO for contracts that do not have a designated COR. For directions on completing the SF85P, the Contractor is instructed to consult with their company’s Security Manager. In order to maintain access to required systems, the Contractor shall ensure completion of annual IA training, monitor expiration of requisite background investigations, and initiate re-investigations as required.

7.3.3 For DoD Information Assurance Awareness training, please use this site:
http://iase.disa.mil/index2.html

DIRECTIONS at WEBSITE: On the right side under "IA Training:" select "IA Training Available Online". On the next page select the frame with "DoD Information Assurance Awareness". When the next page comes up, select "Launch DoD Information Assurance Awareness.

7.4 Key Personnel Security Clearance Requirements
All key personnel working on this task must have an active interim SECRET clearance or final SECRET clearance in JPAS at contract award. Additionally, all Key Personnel must be eligible for a Common Access Card (CAC). CAC eligibility requires one of the following:

a. An open investigation at the Office of Personnel Management AND a favorable fingerprint result from the FBI database when verified by the Government security office.

b. A closed and favorably adjudicated investigation.

8.0 NAVY/MARINE CORPS INTERNET (NMCI) SEATS AND COMMON ACCESS CARDS (CACs)

The Government will provide access to PMW 790 information, databases, metrics and files as required for proper task performance. The Government will provide desk space and NMCI desktop computer(s) for the on-site Contractor support personnel. The government does not authorize the Contractor to procure any NMCI seats for personnel working at the Contractor site.

In addition, the Government will provide NMCI CACs for the performance of this Task Order. The Contractor PM and Facility Security Officer (FSO) are responsible for notifying the Government Contracting Officer's Representative (COR) and the Trusted Agent (TA) when an employee who has been issued a CAC plans to leave the Company or transfers to another Program/Project. In the case of an employee who no longer works for the Company, the Contractor shall collect the CAC and turn it over to the TA within 2 working days of the employee's departure. In the case of an employee still retained by the Company transferring to another Program/Project within SPAWAR, the Contractor shall notify the COR and the TA within 2 working days so the TA can transfer the TA responsibilities to the new TA vice revoking and issuing a new CAC.

9.0 CONTRACTOR PERFORMANCE ASSESSMENT REPORTING SYSTEM (CPARS)

Performance evaluation will be documented in the CPARS for this task order based on the performance standards as set forth in the Quality Assurance Surveillance Plan (QASP).

10.0 TRAVEL

Domestic and International Travel may be required to support and participate in the prescribed tasking. Foreign travel is announced well in advance to facilitate country clearances.
All travel requests must be submitted to the Contracting Officer's Representative (COR) no later than five working days in advance of travel date for approval. The request for all travel will be made by any hard or soft copy correspondence. The Travel Request shall include the following:

- Travelers Name
- Name of specific Government Sponsor requesting the travel
- Program/Project Name travel is required for
- Applicable Performance Work Statement (PWS) Para #
- Reason for travel
- Duration of travel
- Dates of travel
- Travel cost estimate
- Total travel spent to date
- Balance of authorized travel funding

When travel is complete, the traveler shall perform travel voucher claim closeout procedures; furnishing travel itinerary to the requestor and COR per prescribed format in CDRL A002 within 7-days.

11.0 CONTRACTING OFFICERS REPRESENTATIVE (COR)

Primary: Mr. Milton Martinez, phone: (619)524-7290 and e-mail: milton.martinez@navy.mil

12.0 TASK ORDER MANAGEMENT AND ADMINISTRATION

12.1 Invoice, Receipt, Acceptance, and Property Transfer (Irapt) Invoicing Requirements

The contractor shall notify the COR via e-mail when the contractor submits invoices to iRAPT. The contractor shall also provide a soft copy of the invoice and any supporting documentation as requested by the COR in order to assist the COR in validating the invoiced amount against the services provided during the billing cycle and completing the Invoice Review Form provided.

12.2 Contractor Employee Identification

For all services provided by the Contractor under this PWS and associated Task Order, the Contractor's employees shall identify themselves as Contractor personnel by introducing themselves or being introduced as Contractor personnel and displaying distinguishing badges or other visible identification for meetings with Government personnel. Additionally, the Contractor's personnel shall appropriately identify themselves as Contractor employees in telephone conversations and in formal and informal written correspondence.

12.3 Enterprise-Wide Contractor Manpower Reporting Application (ECMRA)

The Contractor shall report ALL Contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Space and Naval Warfare Systems Command (SPAWAR) via a secure data collection site. The Contractor is required to completely fill in all required data fields using the following web address: http://www.ecmra.mil/.
Reporting inputs (from Contractors) will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than **October 31 of each calendar year**. The Contractor may direct questions to the help desk, linked at: http://www.ecmra.mil.

12.4 Contract Transition

A Kick-Off Meeting will be held no later than five (5) business days after contract award. The contractor and the Government will go over the contractor's detailed Contract Transition Plan provided in response to the RFP at the Kick-Off meeting. For presentation purposes, the transition plan shall focus on how the task will be fully staffed to effectively perform the requirements of this PWS within thirty (30) days of contract award and throughout the duration of the contract period of performance.

The kick-off presentation shall address, at a minimum, the following:

(a) How the required level of proposed personnel with the qualifications and experience as described in PWS Section 5.0 will be met to include staffing at the various geographic locations, as applicable.

(b) How personnel will be transitioned/surged throughout the contractual period to meet the needs of the Government.

(c) Contractor's corporate management and corporate resources including internal and external communication lines; the contractor's method for maintaining a close liaison with the COR; the identification of the contract program manager and program manager's authority in addition to his/her ability to independently commit company resources to perform under the contract.

In the event of a follow-on award and the incumbent is not the new contractor, the incumbent contractor shall provide status update on transitional efforts and the progress for being fully transitioned within 30 days after contract award.