

**PERFORMANCE WORK STATEMENT**

**for**

**Engineering, Production, Procurement,  
In-Service Engineering Agent (ISEA), and  
Support Services**

**for the**

**Environmental Satellite Receiver Processor (ESRP)  
(AN/SMQ-11 and AN/FMQ-17)  
Program**

08 July 2011

PMW/A 170 Satellite Communications  
PEO C4I

**Distribution Statement A:** Approved for Public Release; distribution is unlimited.

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## **1 INTRODUCTION**

The Department of the Navy, Space and Naval Warfare Systems Command (SPAWAR), on behalf of the Program Executive Officer for Command, Control, Communications, Computers, and Intelligence (PEO C4I), Communication Program Office (PMW/A 170), is acquiring engineering services and the production of hardware and software for the Navy Environmental Satellite Receiver Processor (ESRP) systems deployed on ships and select shore platforms.

## **2 BACKGROUND**

ESRP consists of two satellite receiver processor systems: AN/SMQ-11 and AN/FMQ-17. These systems provide real-time “organic”/Direct Read Out (DRO) capability for ships and shore stations to receive, process, and disseminate environmental data from both polar orbiting and geostationary satellite families to the Meteorology and Oceanography (METOC) community in support of war-fighter mission planning and execution in all warfare areas. These satellite families consist of both U.S. and Foreign owned METOC sensors. The AN/SMQ-11 is installed primarily on afloat platforms and at select shore sites while the AN/FMQ-17 is strictly shore-based. The objective of this contract is to provide for the analysis, implementation, upgrade, and repair of the hardware and software for the AN/SMQ-11 and AN/FMQ-17.

## **3 SCOPE**

This Performance Work Statement (PWS) defines the effort required by the Contractor to perform engineering support services for the AN/SMQ-11 and AN/FMQ-17 equipment suites. It includes the efforts required to plan, manage, and execute engineering; industrial; logistics; manufacturing and operational support services as specified in the PWS, contract, and individual Technical Direction Letters (TDLs). This PWS also defines the effort required by the Contractor to provide provisional items, such as spares, antenna positioner kits, and processor upgrade kits. In no event shall this contract be used to procure services that are inherently Government functions, as specified in the Federal Acquisition Regulation (FAR) subpart 7.5, or personal services as specified in FAR Part 37. The Quality Assurance Surveillance Plan (QASP) attached to the contract will be used by the Government to monitor performance of the requirements set forth in this PWS; the Contracting Officer’s Representative (COR) will be the quality assurance evaluator.

## **4 APPLICABLE DIRECTIVES**

The contractor shall adhere to the following documents in accordance with paragraph 5.0, Performance Requirements:

### **4.1 Military and Non-Military Standards and Specifications**

<b>Document #</b>	<b>Date</b>	<b>Document Type/Title</b>
MIL-STD-31000	5-Nov-09	Technical Data Packages
MIL-HDBK-881A	30-Jul-05	Work Breakdown Structure
MIL-PRF-49506	18-Jan-05	Logistics Management Information
MIL-DTL-83495C	20-Dec-06	Request for Waiver
MIL-DTL-83495C	23-Aug-10	Detailed Specification Technical Manuals

**4.2 Other Documents**

<b>Document #</b>	<b>Document Type/Title</b>
COMSPAWAR M-3084.1, 06 May 10	SPAWAR System Operational Verification Testing (SOVT) Preparation and Execution Guide (SPEG)
170-CMP-0001-r01, Ver 1, Jul 07	PEO C4I Program Office PMW/A 170 Life Cycle Configuration Management Plan
DoD Guide, Ver 2.0, 1 Oct 08	DoD Guide to Uniquely Identifying Items
EE100-UX-FCB-003, 8 Jul 04	SPAWAR Electronic Field Change Bulletin,
TeraScan ® System As-Built Specifications, Rev C, 26 Apr 07	TeraScan ® System As-Built Specifications for FMQ-17

**4.3 Document Availability**

ANSI standards are available online at <http://www.ansi.org/>. Defense and Federal specifications and standards are available online at <http://dodssp.daps.mil/>, <http://dtswg.msosa.dmsomil>, and <http://astimage.daps.dla.mil/>.

**4.4 Applicable Definitions****4.4.1 Failure**

A failure is the event, or inoperable state, in which any item or part of an item does not, or would not, perform as required.

**4.4.2 Waiver**

A waiver is the acceptance of an item, which during manufacture, or after having been submitted for Government acceptance is found to depart from specified requirements, but nevertheless is considered suitable for use “as is” or after repair by an approved method. An approved waiver is a temporary departure from the requirements and does not change the product baseline. This does not apply to software code listings. A major waiver consists of a departure involving: safety; performance; interchangeability; reliability; survivability; or maintainability. A minor waiver is a departure that is not classified as major.

**4.4.3 Deviation**

Deviation is the approval prior to the manufacture of an item, to depart from a particular requirement(s) of an item’s current approved configuration documentation for a specific number of units or specified period of time. A deviation is a temporary departure from the requirements and does not change the product baseline. This does not apply to software code listings. A major deviation consists of a departure involving: safety; performance; interchangeability; reliability; survivability; or maintainability. A minor deviation is a departure that is not classified as major.

**4.4.4 Major (Class 1) Changes:**

(1) Affects approved baselines, contractually specified form, fit or function requirements such as:

- Performance
- Reliability, maintainability, survivability

- Weight, balance, moment of inertia
  - Interface characteristics
  - Electromagnetic characteristics (i.e., requirement would be out of specification limits)
  - Other technical requirements of the specification
- (2) Affects one or more of the following, after product baseline:
- Product furnished by a customer (GFE)
  - Safety
  - Compatibility with interfacing products (including such products as test equipment, support equipment and associated software)
  - Delivered operation or servicing instruction, for which there is no planned and funded update requirement, such as for periodic or continual maintenance of the instructions
  - Preset adjustment to the extent that product identification should be changed
  - Interchangeability, substitutability, or replaceability as applied to Configuration Items (CIs) and to all subassemblies and parts except the pieces and parts of non-repairable assemblies
- (3) Requires retrofit of delivered products, e.g., by product recall, modification kit installation, attrition (replacement during maintenance by modified spares), etc.
- (4) Affects cost/price to customer(s) (including incentives and fees), guarantees, warranties, contracted deliveries or milestones; and is an engineering change that does not impact factors 1 through 3

#### **4.4.5 Minor (Class 2) Changes:**

Minor (Class 2) Changes are those changes which impact none of the Class 1 factors specified above.

### **5 PERFORMANCE REQUIREMENTS**

The Contractor shall provide support services in the work areas listed below.

#### **5.1 Program Management (CLINs 0001, 0101, 0201, 0301, 0401):**

##### **5.1.1 Program Management (OMN)**

The Contractor shall prepare, maintain, and track program data including schedules and Plans of Action and Milestones (POA&Ms) and conduct quarterly program reviews and/or as specified by the Program Office.

**5.1.1.1** The Contractor shall maintain program management plans, policies and procedures to ensure the ESRP program is properly managed to stay on schedule, within cost, and to ensure that all performance risks are properly identified and managed.

**5.1.1.2** Technical and Programmatic Reviews as required to meet established milestones and the attached Contract Data Requirements Lists (CDRLs).

**5.1.1.3** Monthly Status Reports documenting progress against the schedule, which should address progress for the period, problem or risk areas, and planned activities for the next period. Reports delivered and inspected by Program Manager or Designee. Reports to be submitted by the specified due date in accordance with CDRL A001.

- 5.1.1.4 The Contractor shall provide system failure tracking and analyses for the AN/SMQ-11 and AN/FMQ-17, as required. Contractor shall utilize REMEDY Software to assist in failure analysis.
- 5.1.1.5 The Contractor shall maintain and track all platforms with ESRP TeraScan® software licenses for configuration management purposes.
- 5.1.1.6 The Contractor shall maintain the AN/SMQ-11 and AN/FMQ-17 technical product baseline.
- 5.1.1.7 Weekly equipment status reports shall be included in the Weekly ISEA Status reports (CDRL A013) equipment status reports will document current corrective maintenance efforts, current and future installation efforts.
- 5.1.1.8 Travel, materials, and other direct costs may be required to support the above tasks.

**5.1.2 Production Support (OPN)**

The Contractor shall prepare and track production support data including schedules and POA&Ms and conduct quarterly program reviews and/or as specified by the Program Office in support of first installations of production hardware, production scheduling/planning, and modernization of the ESRP equipment suites.

- 5.1.2.1 The Contractor shall implement production management plans, policies and procedures to ensure the ESRP program is properly managed to stay on schedule, within cost, and to ensure that all performance risks are properly identified and managed.
- 5.1.2.2 The Contractor shall conduct technical and programmatic reviews and meetings as required to meet established milestones.
- 5.1.2.3 The Contractor shall provide Monthly Status Reports (MSRs) documenting progress against the program schedule, which should address progress for the period, problem or risk areas, and planned activities for the next reporting period. The Contractor shall submit MSRs in accordance with CDRL A001.
- 5.1.2.4 The Contractor shall deliver weekly equipment status reports (CDRL A013); weekly equipment status reports shall document modernization efforts as well as all future installation efforts.
- 5.1.2.5 Travel, materials, and other direct costs may be required to support the above tasks.

**5.2 Engineering Services (CLINs 0001, 0101, 0201, 0301, 0401):**

**5.2.1 Engineering Services (OMN)**

- 5.2.1.1 The Contractor shall execute engineering services which will include technical research and investigation studies; systems engineering; hardware and software upgrades and maintenance; and overall product support of the ESRP equipment suites.
- 5.2.1.2 The Contractor shall execute engineering, hardware, and software aspects of technology and equipment/system acquisition and product support for the AN/SMQ-11 and AN/FMQ-17 fielded. Functions and/or tasks may include:
- 5.2.1.3 Systems engineering including requirements analysis, technical studies, reliability and maintainability engineering, system integration and technical evaluations.

- 5.2.1.4** Software engineering for all phases of the system life cycle including all functions/tasks associated with software acquisition, support, and testing. Update software annually with integrated logistics support in accordance with the Program Assessment Schedule provided by the Government.
- 5.2.1.5** Product engineering technical support including configuration management, and technical baseline validation.
- 5.2.1.6** The Contractor shall perform engineering investigations to identify actions that could improve system reliability, maintainability, configuration control, and operational ease of use for the AN/SMQ-11 and AN/FMQ-17. Findings of such investigations will result in generation of Engineering Change Proposals (ECPs), per the Government's request.
- 5.2.1.7** The Contractor shall perform Depot Level Overhauls of the AN/SMQ-11 and AN/FMQ-17 systems as defined in U.S. Code Title 10, Subtitle A, Part IV, Chapter 146 § 2460, "Definition of depot-level maintenance and repair".
- 5.2.1.8** The Contractor shall provide technical support via phone-con, message, REMEDY, and on-site technical assistance as required for the AN/SMQ-11 and AN/FMQ-17, to be directed by issuance of a TDL.
- 5.2.1.9** The Contractor shall maintain Software Installation Plans (SIPs) as specified under individual TDLs and as per CDRL A016.
- 5.2.1.10** The Contractor shall maintain frequency allocation data as required per CDRL A002.
- 5.2.1.11** As the designated In Service Engineering Agent (ISEA), the Contractor shall control, package and ship or hand carry non-scheduled government furnished equipment/material (GFE/GFM) (including Storage Agreement Account assets) to support Casualty Reports (CASREPS), Navy Inventory Control Points (NAVICP) requests, Defense Logistics Agency (DLA) requests, Regional Maintenance and Modernization Coordination Office (RMMCO) requests, and parts required to support Contractor's employees servicing or installing AN/SMQ-11 or AN/FMQ-17 equipment in the field.
- 5.2.1.12** Class II Engineering Changes/Minor Deviations/Minor Waivers: The Contractor shall have authority to approve Class II Engineering Changes, Minor Deviations and Minor Waivers. In the event that any ECPs, waivers, or deviations are improperly approved, the ACO/Ordering Officer may unilaterally rescind approval and require the contractor to submit an ECP, waiver or deviation (CDRL A003, A004). The Contractor shall deliver to the Government a Configuration Management Plan CDRL A011 which will outline their configuration management processes. The Contractor shall also perform analyses, change proposals, and specifications as required, in accordance with CDRL A005.
- 5.2.1.13** Class I Engineering Changes Proposals: The contractor shall submit an ECP to the Government for review and approval for all Class I changes. ECPs will be reviewed and approved by the PMW/A 170 Government Configuration Control Board (CCB). The processes, roles, and responsibilities for this process are outlined in the PEO C4I Program Office PMW/A 170 Life Cycle Configuration Management Plan which the contractor shall comply with. Class I ECPs shall be in accordance with CDRL A006.

- 5.2.1.14** Value Engineering Change Proposals: The Contractor shall have authority to submit Value ECPs in accordance with FAR 52.248-1. The Government will review any and all Value ECPs in accordance with FAR 52.248-1 and CDRL A006.
- 5.2.1.15** Any requirement for use of Automated Test Equipment (ATE) by a Department of Defense (DoD) activity in support of the item(s) being procured under the terms of this contract shall be satisfied only by the use of an ATE that is a member of the DoD Automated Test System (ATS) family of equipment. A list of currently approved DoD ATS family members may be obtained from the DoD ATS Executive Agent Office, PMA-260 at (703) 604-3344, extension 7324.
- 5.2.1.16** The Contractor shall provide other operational and maintenance services for the AN/SMQ-11 and AN/FMQ-17 as may be specified in individual TDLs.
- 5.2.1.17** The Contractor shall perform AN/SMQ-11 system upkeep at selected ship and/or shore sites.
- 5.2.1.18** Travel, materials, and other direct costs may be required to support the above tasks.

## **5.2.2** Engineering Services (OPN)

The Contractor shall execute the engineering, hardware, and software aspects of technology and equipment/system acquisition support and product support for the AN/SMQ-11 and AN/FMQ-17 production systems. Functions and/or tasks may include:

- 5.2.2.1** Systems engineering including requirements analysis, technical studies, reliability and maintainability engineering, system integration and technical evaluations.
- 5.2.2.2** Product engineering technical support including configuration management, and technical baseline validation.
- 5.2.2.3** The Contractor shall produce evolutionary AN/SMQ-11 and AM/FMQ-17 hardware upgrades focusing on receiver and processing functions to include both inboard and outboard (i.e. antenna/pedestal/controller) technology refresh upgrades.
- 5.2.2.4** The Contractor shall procure equipment as required to support AN/SMQ-11 and AN/FMQ-17 evolutionary hardware upgrades and associated software when specified under individual TDLs.
- 5.2.2.5** The Contractor shall deliver Software Installation Plans (SIPs) as specified under individual TDLs and as per CDRL A016.
- 5.2.2.6** The Contractor shall deliver frequency allocation data as required per CDRL A002.
- 5.2.2.7** The Contractor shall produce antenna refurbishment kits for the AN/SMQ-11 as specified under individual TDLs.
- 5.2.2.7.1** The Contractor shall submit an Acceptance Test Plan (CDRL A007) and Test Procedures (CDRL A008) for Factory Acceptance Testing (FAT) prior to production of the antenna refurbishment kits.
- 5.2.2.7.2** The first antenna refurbishment kit shall undergo FAT prior to delivery to the Government. If the antenna refurbishment kit fails FAT, the Contractor shall fix any deficiencies until it passes FAT.
- 5.2.2.7.3** The Contractor shall submit a FAT Test Report in accordance with CDRL A009.

- 5.2.2.8** The Contractor shall perform AN/FMQ-17 system evolutionary upgrades at selected shore sites.
- 5.2.2.9** The Contractor shall perform AN/SMQ-11 system evolutionary upgrades at sites ashore and afloat.
- 5.2.2.10** The Contractor shall procure equipment as required to support the AN/SMQ-11 and AN/FMQ-17 program when specified under individual TDLs.
- 5.2.2.11** The Contractor shall provide system testing, initial training, and support, as related to AN/SMQ-11 and AN/FMQ-17 efforts.
- 5.2.2.12** The Contractor shall support logistic, technical and project review meetings.
- 5.2.2.13** The Contractor shall provide design and build services to support product improvement of the AN/SMQ-11 and AN/FMQ-17 systems to support installations, as may be specified in individual TDLs.
- 5.2.2.14** All hardware delivered must be vendor environmentally qualified to meet shipboard and MIL-STD-461F requirements. Prior and/or equivalent environmental test data is acceptable. If a part/component has not been environmentally tested and no equivalent test data is available, then the Contractor shall environmentally qualify the part/component. The Contractor shall submit an Electromagnetic Interference (EMI) test report in accordance with CDRL A010 to support these actions.
- 5.2.2.15** Class II Engineering Changes/Minor Deviations/Minor Waivers: The Contractor shall have authority to approve Class II Engineering Changes, Minor Deviations and Minor Waivers. In the event that any ECPs, waivers, or deviations are improperly approved, the Government may unilaterally rescind approval and require the Contractor to submit an ECP, request for waiver, or request for deviation (CDRL A006, A003, A004). The Contractor shall deliver to the Government a Configuration Management Plan CDRL A011 which will outline their configuration management processes. The Contractor shall also perform analyses, change proposals, and specifications as required, in accordance with CDRL A005.
- 5.2.2.16** Class I Engineering Changes Proposals: The Contractor shall submit an ECP, to the Government for review and approval, for all Class I changes. ECPs will be reviewed and approved by the PMW/A 170 Government Configuration Control Board (CCB). The processes, roles, and responsibilities for this process are outlined in the PEO C4I Program Office PMW/A 170 Life Cycle Configuration Management Plan which the contractor shall comply with. Class I ECPs shall be in accordance with CDRL A006.
- 5.2.2.17** Value Engineering Change Proposals: The Contractor shall have authority to submit Value ECPs in accordance with FAR 52.248-1. The Government will review any and all Value ECPs in accordance with FAR 52.248-1 and CDRL A006.
- 5.2.2.18** Any requirement for use of Automated Test Equipment (ATE) by a Department of Defense (DoD) activity in support of the item(s) being procured under the terms of this contract shall be satisfied only by the use of an ATE that is a member of the DoD Automated Test System (ATS) family of equipment. A list of currently approved DoD ATS family members may be obtained from the DoD ATS Executive Agent Office, PMA-260 at (703) 604-3344, extension 7324.

**5.2.2.19** Travel, materials, and other direct costs may be required to support the above tasks.

**5.2.3 Engineering Services (RDT&E)**

The Contractor shall execute the research, engineering, hardware, and software aspects of technology and equipment/system development, system acquisition support, and product support for the AN/SMQ-11 and AN/FMQ-17. The focus of the effort is to identify and assess changes that will impact the AN/SMQ-11 or AN/FMQ-17 systems, and their ability to receive and process current and planned meteorological satellites such as Defense Meteorological Satellite Program (DMSP), Geosynchronous Orbiting Environmental Satellite (GOES), Polar-orbiting Operational Environmental Satellite (POES), Joint Polar Orbiting Satellite System (JPSS), Defense Weather Satellite System (DWSS), and other METOC satellite sensor opportunities. Functions and/or tasks may include:

- 5.2.3.1** Systems engineering including design assistance, requirements analysis, technical studies, reliability and maintainability engineering, architecture design, system integration and technical evaluations.
- 5.2.3.2** Electronic and mechanical design to develop innovative approaches to subsystem design and delivery of predictable, cost effective, documented designs.
- 5.2.3.3** Product engineering technical support including configuration management, and data package validation.
- 5.2.3.4** The Contractor shall develop and prepare Software Installation Plans (SIPs) as specified under individual TDLs and as per CDRL A016.
- 5.2.3.5** The Contractor shall develop and prepare frequency allocation data as required per CDRL A002.
- 5.2.3.6** The Contractor shall continue engineering research to determine candidate technologies and/or products to augment the capabilities of the AN/SMQ-11 or AN/FMQ-17.
- 5.2.3.7** The Contractor shall provide technical support and analysis to determine impacts of proposed satellite changes on the AN/SMQ-11 and AN/FMQ-17 systems.
- 5.2.3.8** The Contractor shall perform software analysis and development to provide new functionality to the AN/SMQ-11 or AN/FMQ-17, such as efforts necessary to support new or revised satellite data formats, new or revised satellite data families and as required per CDRL A017.
- 5.2.3.9** The Contractor shall perform software analysis and development to provide new functionality to the AN/SMQ-11 or AN/FMQ-17 for continued Secret Internet Protocol Router Network (SIPRNet) infrastructure applications and connectivity associated with the Global Broadcast Service (GBS), Navy Multiband Terminal (NMT) and/or Consolidated Afloat Networks and Enterprise Services (CANES), and as required per CDRL A017.
- 5.2.3.10** The Contractor shall support task requests, including participation in integrated Product Teams, for WINDSAT/CORIOLIS, DMSP, JPSS, and Defense Weather Satellite System (DWSS) and the Air Force's Mark IV-B (MK IV B) Program of Record (POR).
- 5.2.3.11** Class II Engineering Changes/Minor Deviations/Minor Waivers: The Contractor shall have authority to approve Class II Engineering Changes, Minor Deviations and Minor

Waivers for those items that are being developed using RDT&E funding. In the event that any ECPs, waivers, or deviations are improperly approved, the Government may unilaterally rescind approval and require the contractor to submit an ECP, request for waiver or request for deviation (CDRL A006, A003, A004). The Contractor shall deliver to the Government a Configuration Management Plan CDRL A011 which will outline their configuration management processes. The Contractor shall also perform analyses, change proposals, and specifications as required, in accordance with CDRL A005.

**5.2.3.12 Class I Engineering Changes Proposals:** The contractor shall submit an ECP, to the Government for review and approval, for all Class I changes associated with items that are being developed with RDT&E funding. ECPs will be reviewed and approved by the PMW/A 170 Government Configuration Control Board (CCB). The processes, roles, and responsibilities for this process are outlined in the PEO C4I Program Office PMW/A 170 Life Cycle Configuration Management Plan which the contractor shall comply with. Class I ECPs shall be in accordance with CDRL A006.

**5.2.3.13 Value Engineering Change Proposals:** The Contractor shall have authority to submit Value ECPs in accordance with FAR 52.248-1 for items being developed with RDT&E funding. The Government will review any and all Value ECPs in accordance with FAR 52.248-1 and CDRL A006.

**5.2.3.14** Any requirement for use of Automated Test Equipment (ATE) by a Department of Defense (DoD) activity in support of the item(s) being procured under the terms of this contract shall be satisfied only by the use of an ATE that is a member of the DoD Automated Test System (ATS) family of equipment. A list of currently approved DoD ATS family members may be obtained from the DoD ATS Executive Agent Office, PMA-260 at (703) 604-3344, extension 7324.

**5.2.3.15** The Contractor shall develop software and hardware as needed to accomplish these tasks.

**5.2.3.16** Travel, materials, and other direct costs may be required to support these tasks.

### **5.3 Industrial Services (CLINs 0001, 0101, 0201, 0301, 0401)**

#### **5.3.1 Industrial Services (OMN)**

**5.3.1.1** The Contractor shall provide industrial services to include manufacturing, maintenance, and repair of the AN/SMQ-11 and AN/FMQ-17 system.

**5.3.1.2** Travel, materials, and other direct costs may be required to support the below tasks.

**5.3.1.3** Industrial operations and functions including:

- Producibility reviews
- Cost analysis
- Configuration control, status accounting, verification and audit
- Inventory management

**5.3.1.4** Processes supporting industrial operations and functions including:

- Plating, painting etc.

- Testing
- Packaging and shipping.

### **5.3.2 Industrial Services (OPN)**

The Contractor shall execute industrial tasks including manufacturing, field installations, and modifications of the AN/SMQ-11 and AN/FMQ-17. Tasks may include:

#### **5.3.2.1 Industrial operations and functions including:**

- Producibility reviews
- Cost analysis
- Configuration control, status accounting, verification and audit
- Manufacturing project planning
- Parts/materials requisitioning and procurement
- Inventory management
- Manufacturing

#### **5.3.2.2 Processes supporting industrial operations and functions including:**

- Computer Numerical Control (CNC) and conventional machining
- Sheet metal fabrication
- Plating, painting etc.
- System assembly
- Inspection/quality control
- Testing
- Packaging and shipping.

#### **5.3.2.3 Systems installations, upgrades, and modifications delivered, implemented, and tested.**

**5.3.2.4** The Contractor shall conduct SPEG-compliant SOVT after completing each system installation to verify that the installed or modified equipment, systems, interfaces with existing systems, and systems impacted by the installation are properly installed and operates as intended at the platform specific location and environment.

**5.3.2.4.1** The SOVT report is to be uploaded into the Configuration Data Management Open Architecture (CDMOA) database.

**5.3.2.5** Travel, materials, and other direct costs may be required to support the above tasks.

### **5.4 Logistics Services (CLINs 0001, 0101, 0201, 0301, 0401)**

#### **5.4.1 Logistics Services (OMN)**

The Contractor shall provide integrated logistics support for the ESRP Program fielded systems including logistic planning, engineering, training efforts, and compliance with the terms of the Unique Identification (UID) clause as set forth in DFARS 252.211-7003. Tasks may include:

**5.4.1.1** Logistics Planning assistance in all areas of Integrated Logistics Support (ILS).

**5.4.1.2** Logistics Engineering as required. Examples include Reliability Predictions, Design Interface, Maintainability Predictions and Maintainability and Reliability Design Criteria.

- 5.4.1.3** The Contractor shall identify and mark all end items in accordance with DoD Instruction 5000.64, MIL-STD-130N, and the "DoD Guide to Uniquely Identifying Items, version 2.0", dtd. 1 Oct 2008. In addition, removable/repairable items over \$5,000.00 are to be marked. The Contractor shall submit an IUID Report, which lists each end item and corresponding IUID, in accordance with CDRL A012.
- 5.4.1.4** The Contractor shall provide logistics support via phone-con, message, REMEDY, and on-site technical assistance as required for the AN/SMQ-11 and AN/FMQ-17, to be directed by issuance of a TDL.
- 5.4.1.5** The Contractor shall provide maintenance training for technicians supporting AN/SMQ-11 and AN/FMQ-17 systems, as required.
- 5.4.1.6** The Contractor shall maintain AN/SMQ-11 and AN/FMQ-17 logistics documents, technical manuals, etc. as required.
- 5.4.1.7** In-Service Engineering Agent (ISEA) Support including providing support for fielded systems and the analysis of performance and supportability parameters. Examples include Inventory Management and Supply Support, Repair of Repairable items, initial writing and revisions to Technical and Training Publications. Submission of reports detailing weekly activities in accordance with CDRL A013.
- 5.4.1.8** Submission of miscellaneous Technical Reports on an emergent basis, in accordance with CDRL A014 (i.e. Engineering Change (EC), Field Change (FC), Ship Change Document (SCD), Fleet Readiness Certification Board (FRCB), and associated databases as required). Review the ESRP Technical Manuals and submit any necessary changes as required, in accordance with CDRL A015.
- 5.4.1.9** Successful training and user support of ESRP.
- 5.4.1.10** The Contractor shall maintain inventory management, supply support systems and risk mitigation strategies for addressing parts obsolescence issues of the ESRP equipment suite.
- 5.4.1.11** Travel, materials, and other direct costs may be required to support the above tasks.

## **5.4.2 Logistics Services (OPN)**

The Contractor shall provide integrated logistics support for the ESRP Program production systems including logistic planning, engineering, initial training efforts, and compliance with the terms of the Unique Identification (UID) clause as set forth in DFARS 252.211-7003. Tasks may include:

- 5.4.2.1** Logistics Planning assistance in all areas of ILS.
- 5.4.2.2** Logistics Engineering as required. Examples include Reliability Predictions, Design Interface, Maintainability Predictions and Maintainability and Reliability Design Criteria.
- 5.4.2.3** Submission of miscellaneous Technical Reports on an emergent basis, in accordance with CDRL A014 (i.e. Engineering Change (EC), Field Change (FC), Ship Change Document (SCD), Fleet Readiness Certification Board (FRCB), and associated databases as required). Review the ESRP Technical Manuals and submit any necessary changes as required, in accordance with CDRL A015.

**5.4.2.4** The Contractor shall implement inventory management, supply support systems and risk mitigation strategies for addressing parts obsolescence issues of the ESRP equipment suite.

**5.4.2.5** Travel, materials, and other direct costs may be required to support the above tasks.

**5.5 Information Assurance (IA) (OPN) (CLINs 0001, 0101, 0201, 0301, 0401)**

The Contractor shall provide expert Information Assurance (IA) and engineering services to the PEO C4I, PMW/A 170 in support of IA compliance of AN/FMQ-17 and AN/SMQ-11 installations. The technical tasks include planning, research, testing and reporting pertaining to the submission of documentation to substantiate compliance with all IA requirements in accordance with Federal Law.

**5.5.1 Applicable IA Documents**

- Federal Information Security Management Act of 2002, FIMSA, 44 USC 3541, E-Government Act of 2002, Pub. L. 107-347, 116 Stat. 2899.
- DoDI 8510.01, DoD Information Assurance Certification and Accreditation Process (DIACAP), 28 November 2007 (series), updated by DON CIO memo 02-10 26 April 2010.
- Department of Defense Information Assurance (IA), DoDD 8500.01E, 24 October 2002 (series).
- Department of Defense Information Assurance (IA) Implementation, DoDI 8500.2, 06 February 2003 (series).
- Dept. of the Navy Information Assurance (IA) Policy, SECNAVINST 5239.3A, 20 December 2004 (series).
- Secretary of the Navy Information Assurance (IA) Program Manual SECNAV M-5239.1, November 2005 (series).
- Chief of Naval Operations Navy Information Assurance (IA) Program, OPNAVINST 5239.1B, 09 November 1999 (series).
- DON CIO Memo 01-09, January 30, 2009 (series).

**5.5.2 IA Technical Requirements**

**5.5.2.1** The Contractor shall provide engineering and technical services in the functional areas of IA and Federal Information Security Management Act (FISMA) compliance for the AN/FMQ 17 and AN/SMQ-11 systems. The Contractor shall also advise the Government of any recent changes in IA policy, and support the incorporation of changes required to accommodate new IA requirements.

**5.5.2.2** The Contractor shall comply with Federal Government policies, practices, and regulations as well as those unique to the Department of Defense and the Department of the Navy.

**5.5.2.3** The Contractor shall maintain liaison with elements of the operating fleet (COMNAVSURFLANT/COMNAVSURFPAC), Type Commanders, ISEAs, equipment/system vendors, other support contractors as required.

**5.5.2.4** The Contractor shall provide technical support with testing and FISMA compliance for the Navy Shore-based AN/FMQ 17 and AN/SMQ-11 systems.

- 5.5.2.5 The Contractor shall perform an annual Information System security documentation review and annual testing/review of mandatory security controls in accordance with DoD Instruction 8500.2, "Information Assurance (IA) Implementation."
- 5.5.2.6 The contractor shall handle, house, operate, manage, and safeguard COMSEC equipment and associated key material at the time that COMSEC work needs to be performed.
- 5.5.2.7 The Contractor shall verify Contingency Plans, Incident Response Plans, and Annual FISMA Test Plans, perform Annual FISMA Testing/Risk Assessment and Regression Testing (if required) of the AN/FMQ 17 systems, and develop FISMA Test Reports, FISMA Residual Risk Assessment Results, Letters of System FISMA Compliance, FISMA Plans of Action and Milestones (POA&M), and update the AN/SMQ-11 and AN/FMQ 17 System Security Authorization Agreements, as required.
- 5.5.2.8 With respect to Platform Information Technology (PIT) status, the Contractor will advise the Program Office of any additional administrative requirements in order to maintain compliance DON CIO Memo 01-09.
- 5.5.2.9 The Contractor shall track IA compliance using the Online Compliance Reporting System (OCRS) as outlined in the PMW/A 170 Life Cycle Configuration Management Plan.
- 5.5.2.10 Travel, materials, and other direct costs may be required to support the above tasks.

### **5.5.3 Storage Agreement Account (SAA) Assets**

- 5.5.3.1 SAA Assets (OMN): The Contractor shall manage the warehousing, shipping, and receiving of Storage Agreement Account assets (SAA) for the AN/SMQ-11 and AN/FMQ-17 at their facility. Inspection and acceptance of SAA items is not required. The Contractor has no responsibility for determining operational condition of incoming materials. Condition is identified by the customer and is carried in the records as listed upon receipt.
- 5.5.3.2 SAA Assets (OPN): The Contractor shall manage the warehousing, shipping, and receiving of Storage Agreement Account assets (SAA) for the AN/SMQ-11 and AN/FMQ-17 at their facility in support of the production and installation of the ESRP equipment suites. Inspection and acceptance of SAA items is not required. The Contractor has no responsibility for determining operational condition of incoming materials. Condition is identified by the customer and is carried in the records as listed upon receipt.

### **5.6 AN/SMQ-11 Repair and Upgrade (CLINs 0001, 0101, 0201, 0301, 0401)**

#### **5.6.1 AN/SMQ-11 Repair and Upgrade (SCN)**

- 5.6.1.1 The Contractor shall provide repair, upgrade, and modification support for the AN/SMQ-11 system as may be specified in individual TDLs.
- 5.6.1.2 Travel, materials, and other direct costs may be required to support the above task.

**5.7 Provisional Item Ordering (CLINs 0002, 0102, 0202, 0302, 0402)**

**5.7.1 Provisioning Item Orders (OMN)**

The Contractor shall maintain AN/SMQ-11 and AN/FMQ-17 spares, antenna positioner kits, and processor upgrade kits.

**5.7.2 Provisioning Item Orders (OPN)**

The Contractor shall provide AN/SMQ-11 and AN/FMQ-17 spares, antenna positioner kits, and processor upgrade kits. Travel, materials, and other direct costs may be required to support this task.

**5.7.3 Provisioning Item Orders (RDT&E)**

The Contractor shall develop AN/SMQ-11 and AN/FMQ-17 spares, antenna positioner kits, and processor upgrade kits. Travel, materials, and other direct costs may be required to support this task.

**5.8 Travel/Other Direct Cost (ODC) Requirements (CLINs 0003, 0103, 0203, 0303)**

**5.8.1 Other Direct Cost (ODC)**

As referenced throughout the PWS, the Contractor may incur other direct costs (ODCs) required to complete the tasking identified in this contract, upon Government approval.

**5.8.2 Travel**

All travel must be approved in advance by the Contracting Officer Representative (COR), Mr. Jorge Reyes, (619) 524-7619. The Contractor shall submit a trip report within ten (10) working days after each trip is completed. Travel is anticipated to San Diego CA, and Norfolk, VA, but could include any site which has or supports the ESRP systems, including the following locations:

<u>City</u>	<u>State/Country</u>	<u>City</u>	<u>State/Country</u>
Los Angeles	CA	Bremerton	WA
Monterey	CA	Whidbey Island	WA
Pt. Mugu	CA	Biloxi/Stennis	MS
San Diego	CA	Mechanicsburg	PA
Newport News	VA	Charleston	SC
Norfolk	VA	Rota	Spain
Portsmouth	VA	Yokosuka	Japan
Washington	DC	Manama	Bahrain
Barbers Pt.	HI		
Pearl Harbor	HI		

**6 DELIVERABLES AND CONTRACTOR COMMUNICATIONS**

**6.1 Data Item (DIDs) (CLINs 0004, 0104, 0204, 0304, 0404)**

Data items shall be delivered electronically in accordance to the corresponding DD 1423 instructions for each Data Item Sequence Number. Electronic data delivery shall be made via formal email to the ESRP COR. File formats shall be in accordance to the corresponding DD 1423 instruction for each Data Item Sequence Number.

**6.2 Deliverables**

<b>REQUIREMENT</b>	<b>DUE DATE</b>
A001 – Monthly Status Reports	Due the 30 <sup>th</sup> of Every Month by COB 1700 PDT
A002 – Frequency Allocation Data/ DD 1494	As required
A003 – Request for Waiver	As required
A004 – Request for Deviation	As required
A005 – Miscellaneous Reports	As required
A006 – Value Engineering Change Proposal / ECPs	As required
A007 – Acceptance Test Plan	As required
A008 – Installation Test Procedures	As required
A009 – Installation Test Reports	As required
A010 – EMI Test Report	As required
A011 – Contractor Configuration Management Plan	30 calendar days after contract award
A012 – IUID Report	As required
A013 – ISEA Status Reports	Weekly
A014 – Technical Report	As required
A015 – Technical Manuals	As required
A016 – Software Installation Plan	As required
A017 – Computer Software Product	As required

**6.3 Contractor Employee Identification**

For all services provided by the Contractor under this PWS and associated TDs, 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.

**7 GOVERNMENT FURNISHED PROPERTY**

All copies of Government furnished software, hardware, and technical documentation will be returned to the Government upon completion of task. For a list of associated GFP, please see Attachment (9).

**8 SECURITY**

The nature of this task requires access to secret and unclassified information. The work performed by the contractor will include access to secret and unclassified data, information, and spaces. The contractor will be required to attend meetings classified at secret and unclassified levels.

**8.1 OPSEC Protection**

The Contractor is required to provide Operations Security (OPSEC) protection for all classified information (as defined by FAR 4.401) and sensitive information (as defined by Section 3(d)(4) of PL 100-235 (101 Stat 1727)), pursuant to the National Security Decision Directive 298 of 22

January 1988 and DFARS Clause 252.239-7016. In order to meet this requirement, the Contractor shall develop, implement and maintain a facility level OPSEC program to protect classified and sensitive information to be used at a contractor's and subcontractor's facilities during the performance of this contract. The Contractor is responsible for subcontractor implementation of the OPSEC program requirements for this contract.

## **8.2 Communications Security (COMSEC) Information and Equipment**

The performance of this contract shall require access, receipt, storage and processing of classified information, Communications Security (COMSEC) information and equipment. The Contractor shall be responsible for the protection of COMSEC equipment from the time of receipt of the equipment until custody is turned over to the U.S. Navy.

## **8.3 Foreign Travel**

If foreign travel is required and since foreign travel requirements vary from Country, 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 35 days in advance of departure. Each Traveler must also submit a Personal Protection Plan and have a Level 1 Antiterrorism/Force Protection briefing within one year of departure and a country specific briefing within 90 days of departure.

## **9 TECHNICAL POINT OF CONTACT**

Contracting Officer's Representative (COR): Jorge Reyes, email: [jorge.reyes@navy.mil](mailto:jorge.reyes@navy.mil), phone: 619-524-7619

Technical Point of Contact (TPOC): Jason Ferrigno, email: [jason.ferrigno@navy.mil](mailto:jason.ferrigno@navy.mil), phone: 858-537-8644

## **10 ADDITIONAL REQUIREMENTS**

### **10.1 Preparation for Delivery**

(a) Supplies shall be prepared for delivery in accordance with ASTM-D-3951, "Standard Practice for Commercial Packaging," dated 1 September 1995.

(b) The contractor shall mark all shipments under this contract in accordance with MIL-STD-129 "Military Standard Marking for Shipment and Storage."

### **10.2 Prohibited Packing Materials**

The use of asbestos, excelsior, newspaper or shredded paper (all types including waxed paper, computer paper and similar hydroscopic or non-neutral material) is prohibited. In addition, loose fill polystyrene and plastics as packing materials are prohibited for items destined for afloat units.

### **10.3 Marking of Shipment**

Each shipment of material and/or data shall be clearly marked to show the following information:

**SHIP TO:**  
RECEIVING OFFICER

**MARK FOR:**  
Contract #: \_\_\_\_\_  
Item #: \_\_\_\_\_  
Receiving Officer Code: \_\_\_\_\_

The receiving office address will be specified by the Government via Technical Direction Letter (TDL).

#### **10.4 Unpacking Instructions: Complex or Delicate Equipment**

(a) Location on Container

When practical, one set of the unpacking instructions will be placed in a heavy water-proof envelope prominently marked "UNPACKING INFORMATION" and firmly affixed to the outside of the shipping container in a protected location, preferably between the cleats on the end of the container adjacent to the identification marking. If the instructions cover a set of equipment packed in multiple containers, the instructions will be affixed to the number one container of the set. When the unpacking instructions are too voluminous to be affixed to the exterior of the container, they will be placed inside and directions for locating them will be provided in the envelope marked "UNPACKING INFORMATION."

(b) Marking Containers

When unpacking instructions are provided shipping containers will be stenciled "CAUTION-- THIS EQUIPMENT MAY BE SERIOUSLY DAMAGED UNLESS UNPACKING INSTRUCTIONS ARE CAREFULLY FOLLOWED. UNPACKING INSTRUCTIONS ARE LOCATED (contractor shall state where instructions are located)." When practical, this marking will be applied adjacent to the identification marking on the side of the container.

(c) Marking

All shipping containers will be marked in accordance with MIL-STD-129 "Military Standard Marking for Shipment and Storage."

#### **10.5 Marking of Warranted Items**

(a) Each item covered by a warranty shall be stamped or marked in accordance with MIL-STD 129 "Marking for Shipment and Storage." Where this is impracticable, written notice shall be attached to or furnished with the warranted item.

(b) Warranted items shall be marked with the following information:

- (1) National stock number or manufacturer's part number
- (2) Serial number or other item identifier (if the warranty applies to uniquely identified items)
- (3) Contract number
- (4) Indication that a warranty applies
- (5) Manufacturer or entity (if other than the contractor) providing the warranty
- (6) Date or time when the warranty expires

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Attachment 1

(7) Indication of whether or not attempted on-site repair by Government personnel will void the warranty.