

**Broad Agency Announcement (BAA)**

**N00039-10-X-0003**

**Space and Naval Warfare Systems Command, PMW 760**

**Common Radio Room (CRR) Automation, Monitoring &  
Control (AM&C)**

**TABLE OF CONTENTS**

1 PURPOSE .....2

2 CRR INITIATIVE BACKGROUND .....2

3 CRR AM&C REQUIREMENTS .....4

4 ADMINISTRATIVE INFORMATION .....6

5 SELECTION PROCESS INFORMATION .....7

6 APPLICATION AND SUBMISSION INFORMATION ..... 10

7 ELIGIBILITY INFORMATION ..... 11

8 AGENCY CONTACTS ..... 11

9 STAGE 1 NOTIFICATION ..... 11

10 ADDITIONAL INFORMATION ..... 12

**Appendix A: [PMW 760 Common Radio Room Work Breakdown Structure \(WBS\) for DDG Flight IIA ship Radio Central Operations](#)**

**Appendix B: [New Construction and Modernization Target Platforms for AM&C](#)**

**Appendix C: [PEO C4I Roadmap Equipment Targeted for Integration with AM&C](#)**

**Appendix D: [Relevant Experience Form](#)**

## **Broad Agency Announcement (BAA)**

**N00039-10-X-0003**

### **Space and Naval Warfare Systems Command, PMW 760**

#### **Common Radio Room (CRR) Automation, Monitoring & Control (AM&C)**

## **1 PURPOSE**

The Space and Naval Warfare Systems Command (SPAWAR) in support of the Program Executive Office for Command, Control, Communications, Computers, and Intelligence (PEO C4I), Ship Integration Program Office (PMW 760) is investigating currently available industry solutions to address the Government's needs for Automation, Monitoring and Control (AM&C) of Navy surface ship External Communications (EXCOMMS). These AM&C capabilities are the first phase in delivering a potential Common Radio Room (CRR) Program of Record (POR) for Navy surface ships. PMW 760 is interested in receiving technical papers that describe a technical architecture (hardware, software, and Information Assurance [IA]) for existing solutions that provide AM&C for Radio Frequency (RF) communications suites. After review of the papers, PMW 760 may award multiple contracts with an estimated value of \$100,000 – 200,000 for follow-on analysis of special topics or areas of risk, providing more detailed solution-specific architecture and cost information.

The CRR initiative comprises three pillars: AM&C; Common Shipboard EXCOMMS Suites; and Common Processes. The AM&C pillar will provide a capability to automate key communication planning, operations and maintenance tasks to reduce operator workload and increase operator efficiency. The Common Shipboard EXCOMMS Suite pillar is focused on the delivery of a common, tested, and supported suite of equipment that will minimize design, integration, and testing costs incurred by one-off solutions. Lastly, the Common Process pillar will focus on reducing redundant support infrastructure costs as well as establishing common design and production processes for all ship classes. CRR intends to mimic and build upon the foundation of the successful Common Submarine Radio Room (CSRR) program for SSBN, SSGN, Seawolf and Virginia Class Submarines.

## **2 CRR INITIATIVE BACKGROUND**

While the focus of this BAA is on the AM&C capability, the other aspects of the proposed CRR program are described below to provide the necessary understanding to effectively respond to this BAA.

### **2.1 AUTOMATED MONITORING AND CONTROL (AM&C)**

The CRR initiative will deliver an AM&C capability that will support a more efficient and effective operation of the Navy's modern radio rooms. The AM&C capability will exploit modern digital communications technology, and associated interfaces, to remotely monitor and operate communications equipment. Use of AM&C will streamline radio

room operations and allow for the efficient allocation of critical resources to priority mission activities. The CRR AM&C system will automate activities to plan, establish, reconfigure, operate, monitor and terminate circuits in support of defined Communications Plans (COMMPLAN). Representative examples of the communications management activities for radio room operations aboard DDG Flight IIA platforms are included in the Work Breakdown Structure (WBS) in Appendix A. It is anticipated that the first generation automation could reduce watchstander workload requirements by 12-25%, with greater savings expected as automation capabilities increase. AM&C will provide remote (onboard and off-board) situational awareness of the status, readiness, and state of EXCOMMS resources to ensure effective employment, dynamic allocation, and prioritization of those resources based on evolving operational and mission requirements. Over time, the Navy envisions that EXCOMMS monitoring and control capabilities will be integrated with greater enterprise control and management concepts, and new sensor information (e.g., weather, antennae / topside maps, RF interference) will be incorporated to provide advanced EXCOMMS decision support aids.

## **2.2 COMMON SHIPBOARD EXCOMMS SUITES**

Many active and in-development Navy platforms perform prescribed Navy missions with disparate communications hardware and software suites. CRR will define a common architecture, based on Navy Programs of Record (POR) that will scale appropriately to support multiple surface platforms and reduce variations in surface ships EXCOMM suites. CRR will implement an evolutionary capability based on C4I PORs described in the PEO C4I Master Plan and associated technology roadmaps. Each incremental step will lead to greater standardization of hardware/software packages and interfaces, resulting in CRR capability packages appropriate for modernization as well as new construction platforms.

## **2.3 COMMON PROCESSES**

CRR will provide a common, efficient, and repeatable process that will translate validated requirements into an integrated EXCOMMS capability for multiple platforms. Benefits of CRR will not only be realized by reducing variations in Surface Ship EXCOMMS suites, but also from consolidating and augmenting existing lab infrastructure to create a multi-class common integration facility used for new construction, modernization, and in-service support. CRR will incorporate disciplined configuration management, utilizing an overarching communications system Technical Design Agent (TDA) with class-specific Lead Engineers. This organization will enable a collective group to leverage design and engineering lessons learned and provide increased cost and schedule savings across multiple systems and platforms. Other benefits of the proposed CRR model are streamlined new ship construction integration processes (significantly reducing first of class costs), early identification and mitigation of engineering, installation and modernization risks, improved configuration control, standardized repeatable processes, and lower sustainment costs.

## **2.4 GUIDING TENETS**

The following tenets will guide the development of the CRR program:

- Tenet #1 – Workload Reduction: Reduce the total man-hours required to plan, control and monitor ship EXCOMMS, as well as man-hours and resources to train operational forces in the system's operation. Example activities that comprise the efforts to manage the EXCOMMS environment of a surface ship are listed in Appendix A.
- Tenet #2 – Open Architecture: Utilize a modular design to allow competitive approaches from multiple sources, based on a library of Government Data Rights software. Reuse applications/software and system components that meet requirements, selected as best in breed.
- Tenet #3 – Commonality: Deliver a common AM&C operator interface across platforms, and ensure use of common radio and baseband components on the PEO C4I Roadmap.
- Tenet #4 – Competition: Ensure competition in the selection of solutions, and avoid potential conflicts of interest.

All of these tenets contribute to an overall goal to reduce the total lifecycle cost of designing, developing, integrating, and delivering surface ship EXCOMMS as an end-to-end holistic capability vice individual components.

### **3 CRR AM&C REQUIREMENTS**

#### **3.1 AM&C TARGET CAPABILITIES**

The AM&C will target capabilities in the areas of EXCOMMS Planning, Operations, and Maintenance. The capabilities listed below are only to frame the potential solutions, and should not be considered exhaustive or limiting. Target Capabilities will focus on reducing the workload due to EXCOMMS management activities such as those included in the WBS in Appendix A.

- A. Planning: Activities required to support the development of a deployment, exercise and/or mission COMMPLAN:
- Support Single Unit and Multiple Unit COMMPLAN development, dissemination and storage;
  - Support push / pull of COMMPLANS between units;
  - Support import of COMMPLANS from Operational Tasking, Communications (OPTASK COMM) message.
- B. Operations: Functions required to monitor, configure and operate EXCOMMS systems:
- Support a single Operator Human-Machine Interface (HMI) to control and monitor devices in the PEO C4I Communications & Networking portfolio;
  - Support remote access and manipulation of the AM&C capabilities by authorized personnel in multiple areas of the ship for either control or situational awareness.
  - Support Safety and Lockout functions implementation (e.g., Man Aloft, Air Operations, Emissions Control [EMCON]);
  - Provide signal quality monitoring;
  - Support ad hoc circuit creation, activation, and reconfiguration;
  - Support distributed, simultaneous user operation;
  - Support automated implementation of circuit setup specified in the COMMPLAN.

C. Maintenance: Functions required to perform Maintenance and Fault Isolation:

- Support remote Maintenance and Fault Isolation;
- Support device health data display, storage, and analysis with associated alerts;
- Support corrective measure notification, and troubleshooting analysis.

### 3.2 AM&C TARGET ENVIRONMENT

The CRR AM&C solution will be expected to operate in future and current Navy surface ship environments. The target environment(s) are described as follows:

- AM&C must be suitable for fielding aboard the new construction and in-service platforms identified in Appendix B. Fielding aboard in-service platforms will follow the requirements set forth in the Fleet Modernization Plan (FMP).
- AM&C must support the integration and control and/or monitoring of the PEO C4I Roadmap-based equipment identified in Appendix C. The level of control and/or monitoring of each device will be determined by the capabilities provided by the device interfaces, and the expected cost/benefit ratio (in terms of saved man-hours) to automating each device.
- AM&C must automate and coordinate the tasks to orchestrate device configurations to establish and manage EXCOMMS circuits that cross Black (Unclassified) and Red (Secret) enclave security boundaries.
- The AM&C solution (software and hardware) must be scalable to support potential integration of all of the devices in Appendix C. At the same time, the solution must be able to support a range of device inventories represented by all of the platforms in Appendix B (e.g., from one to multiple DMR radios supporting multiple circuits).
- Fielding of the AM&C solution will not include replacement of radio rooms or their associated systems, but will require integration with those systems already existing in the environment.
- If necessary, AM&C may have to provide or upgrade switching / circuit patching components to enable automated configuration of EXCOMMS circuits from end-to-end.

### 3.3 DESIGN CONSIDERATIONS

The Government anticipates that the following design considerations demonstrate key characteristics of the eventual CRR AM&C product.

**Multi-Domain:** Support remote monitoring and control of devices across multiple security domains (Unclassified and Secret, at a minimum).

**DoD / NSA Certification & Accreditation (C&A):** AM&C solutions must comply with the DoD and NSA C&A requirements.

**Open Architecture:** Solutions must utilize Open Architecture concepts and provide full Government Purpose Rights (GPR), at a minimum, to support reuse and repackaging.

**Small footprint:** Minimum Space, Weight, and Power (SWaP), minimal required environmental control equipment, minimal C4ISR equipment and ancillary equipment, minimal manpower, etc.

**Modular:** Composed of separate, independent modules (both hardware and software) that can be rearranged, replaced, combined, or interchanged easily.

**Scaleable:** AM&C frameworks will be deployed in a manner that seamlessly supports the mix of EXCOMMS configuration complexities from those found in the Littoral Combat Ship (LCS) classes to the Amphibious Command Ships (LCC) and CVN radio rooms.

**Interoperable:** Ability to access, manipulate, and exchange information between multiple disparate systems, such as in the current EXCOMMS radio room configurations.

**Service Oriented:** Manage and coordinate software interactions between published services using defined interfaces and common services. Service interactions are defined using a description language.

#### 4 ADMINISTRATIVE INFORMATION

##### 4.1 NOTIFICATION OF USE OF CONTRACTOR SUPPORT

Pursuant to 41 U.S.C.419, Federal Acquisition Regulation (FAR) 37.204, and other applicable laws and regulations, contractor support personnel from MITRE Corporation will be used to assist with the review and evaluation of the technical papers submitted in response to the BAA.

Contractor support personnel from Booz Allen Hamilton shall assist the Scientific Review Team for administrative purposes only and will not be used in analyzing or reviewing proposals, answering technical questions, writing draft reports, providing comments to evaluators, or any other tasks requiring the rating or scoring of the proposal itself.

Responses to this BAA MUST clearly state that permission is either granted, or not granted, to allow the contractor support personnel identified access to the Respondent's technical papers and any resulting PWS and cost proposal. Should such permission be denied, the evaluation will be conducted without the identified contractor support. Respondents are encouraged to execute a Proprietary Data Protection Agreement (PDPA) with Booz Allen Hamilton. The point of contact for the company is listed below:

Company	Point of Contact
Booz Allen Hamilton	Ms. Elizabeth Rogers Telephone Number: 619-524-7347 E-Mail Address: <a href="mailto:elizabeth.rogers.ctr@navy.mil">elizabeth.rogers.ctr@navy.mil</a>
MITRE	Bill Joo Telephone Number: 619-758-7838 E-mail Address: <a href="mailto:joo@mitre.org">joo@mitre.org</a>

##### 4.2 ACCESS TO NESI SITE

The Government has posted Appendix B and Appendix C of this BAA to the Net-Centric Enterprise Solutions for Interoperability (NESI) collaboration site for industry review in

support of responses to this BAA. NESI access is limited to U.S. Department of Defense (DoD) contractors who possess a valid DoD or ECA-issued PKI certificate.

To request access to the secured website, Respondents must sign and return the Non-Disclosure Agreement (NDA) posted on the SPAWAR E-Commerce Central (E-CC) entitled 'CRR AM&C BAA Bidder's Repository NDA.' An e-mail address and phone number must be provided for each requested user to Ken Nickel at [kenneth.nickel@navy.mil](mailto:kenneth.nickel@navy.mil) and Frederick Renz at [frederick.renz@navy.mil](mailto:frederick.renz@navy.mil). Respondents may request access for up to two users. U.S. DoD contractors who do not already have a valid DoD or ECA-issued PKI certificate will need to purchase an ECA-issued PKI certificate. Visit <http://iase.disa.mil/pki/eca/certificate.html> for additional information on purchasing ECA certificates.

The Government will provide instructions on how to access the secured site to the approved requested users after the required NDAs are received and the company's status as a U.S. DoD contractor is verified. Additional or updated documentation may be posted to the secured site after the initial documents are posted; therefore, it is the responsibility of any interested party to monitor the site for additional postings.

## **5 SELECTION PROCESS INFORMATION**

The BAA evaluation will be conducted in two-stages, as described below. Stage 1 includes receipt, evaluation, and possible selection of a technical paper(s); Stage 2 involves award of a contract(s) for delivery of a technical report / study detailing specifics of the current solution, and how a respondent's existing solution may be expanded to fully address all CRR mission requirements.

### **5.1 STAGE 1 PROCESS**

Stage 1 is receipt, evaluation, and selection of a technical paper. BAA Respondents will submit technical papers that address the relevance of their existing solution (hardware, software, and Information Assurance [IA]) to the requirements identified in Section 3 above.

#### **5.1.1 Evaluation Criteria for Stage 1**

Technical papers will be evaluated against the following criteria, which are listed in descending order of importance:

1. Relevance of Respondent's existing solution to CRR requirements identified in Section 3. Respondents shall:
  - a. Describe the relevance of the functional capabilities of their existing solution to the target capabilities identified in paragraph 3.1.
  - b. Describe the relevance of their existing solution to the target environments identified in paragraph 3.2. This description shall include identification of which platforms / sites (listed in Appendix B or otherwise) have deployed the solution, to include the operational duration of each installation. Respondents shall also identify which of the devices listed in Appendix C currently interface with the existing solution. Respondents shall identify the capabilities individual interfaces provide: Monitor Only,

Limited Control (e.g., on/off), or Full Control (e.g., system manipulation, management, and configuration). Please provide details for interfaces assessed as providing Full Control.

- c. Describe how their existing solution implements the design considerations identified in paragraph 3.3.
2. Relevant experience/past performance.
3. Technical Data Rights restrictions. The Government will consider any restrictions to the Government's rights in intellectual property to be delivered under any contract resulting from this BAA.
4. Rough Order of Magnitude (ROM) cost to prepare a technical report/study describing how the respondent's existing solution can be expanded to fully meet the CRR AM&C requirements.

### **5.1.2 Relevant Experience / Past Performance**

Respondents shall submit Contractor Performance Assessment Reporting System (CPARS) or Past Performance Information Retrieval System (PPIRS) reports to support the Government's evaluation of relevant experience / past performance. Respondents shall submit CPARS or PPIRS reports for no more than three (3) of the most current and relevant contracts, for each year of contract performance. Current is defined as a contract performed within the last five (5) years. Relevant is defined as contracts providing systems or integration architectures that provide a single interface to automate, monitor, and/or control multiple RF communications systems.

In addition to CPARS or PPIRS reports, or in the event that CPARS or PPIRS reports are unavailable, Respondents shall submit the Appendix D Relevant Experience Form to provide information on current relevant contracts as defined in the paragraph above. Respondents shall ensure that the point of contact information provided in the Relevant Experience Form is current and accurate.

### **5.1.3 Technical Data Rights for Intellectual Property Delivered under BAA**

The Government desires to obtain, at a minimum, Government Purpose Rights to the data contained in the technical report/study that will be delivered to the Government if a Respondent's technical paper is selected for the Stage 2 process. Accordingly, Respondents will receive favorable consideration for providing rights greater than GPR to data that might otherwise have been delivered with more restrictive rights.

Respondents to this BAA shall identify all aspects of the intellectual property (i.e., technical data) that the Respondent plans to generate, develop, and/or deliver to the Government with less than Government Purpose Rights in the event that their technical paper is selected for the Stage 2 process. Respondents shall follow the format under DFARS 252.227-7017 to assert any specific restrictions to the Government's rights in intellectual property (i.e., technical data) to be delivered under the resulting contract. If no restrictions are intended, the Respondent should state "None." In the event that the Respondent does not assert any restrictions, the default presumption will be that the Government has Unlimited Rights to all intellectual property (i.e., technical data) developed under the resulting contract.

Respondents must include all documentation establishing their ownership or possession of appropriate licensing rights to all patented inventions (or inventions for which a patent application has been filed) utilized under their proposals. Where a patent application has been filed but has not yet been made available to outside organizations and contains proprietary information, Respondents may provide only the patent number, inventor name(s), assignee names (if any), filing date, filing date of any related provisional application, and a summary of the patent title.

## **5.2 STAGE 2 PROCESS**

If the Government determines that a Respondent has submitted a technical paper describing an existing solution that is relevant to the CRR AM&C requirements identified in Section 3, the selected Respondent may be invited to submit a detailed cost proposal to support award of a contract that will require delivery of a technical report/study that describes specifics of the current solution, and how it can be expanded to more fully meet CRR mission requirements. The Government will provide a template for a Performance Work Statement (PWS) outlining the requirements for the technical report/study. The Government reserves the right to negotiate the content of the PWS and cost proposal for all or a portion of the concepts discussed in the selected technical paper.

### **5.2.1 Performance Work Statement (PWS) Requirements for Technical Report / Study**

The PWS will outline the content requirements for the technical report/study. Content of the technical report/study may include, but not be limited to, the following areas:

- 1) Describe how the technical architecture (software, hardware, and Information Assurance [IA]) of the existing solution can be expanded to achieve the AM&C requirements specified in sections 3.1 and 3.2 of the BAA.
- 2) Identify and describe, in detail, the specific future functional capabilities that must be implemented to ensure the respondent's AM&C solution meets the requirements of Sections 3.1 and 3.2 of this BAA.
- 3) Identify the technical risks associated with expanding the capabilities of the existing solution to fully meet the AM&C requirements in Section 3.1 and 3.2 of this BAA.
- 4) Provide a top level schedule and cost estimates for the activities and required to expand the existing solution to meet the AM&C requirements identified in sections 3.1 and 3.2 of the BAA.
- 5) Identify any aspects of the Naval surface ship AM&C program objectives, desired capabilities, or design considerations that are high risk and may require more analysis. Potential risk areas include:
  - a) Integration of legacy EXCOMM equipment into AM&C architecture.
  - b) Risk analysis for integrating AM&C within a Cross Domain environment.
  - c) Risk analysis for implementation of an AM&C capability into a distributed IP network such as the Consolidated Afloat Network and Enterprise Services (CANES) vice a dedicated control network.
- 6) Describe how the Respondent will employ Open Architecture tenets to incorporate the AM&C capabilities into both current and projected Navy surface EXCOMM systems.

## **5.2.2 Cost Proposal**

The cost proposal shall contain cost estimates sufficiently detailed for meaningful evaluation, including cost details for proposed subcontractors, if applicable. For estimating purposes, the selected Respondent should assume a contract award date of 30 November 2010. The cost proposal must include the total cost of the project by major task and must correspond to the schedule/period of performance provided in the PWS.

Required information for cost proposal:

1. Direct labor. Identify all required labor categories, labor hours, and direct labor rates.
2. Travel costs and time, and the relevance to stated research and development objectives.
3. Publication and report costs.
4. Subcontract costs and type (portion of work to be subcontracted and rationale), if applicable.
5. Consultant fees (indicating daily or hourly rate) and travel expenses; include a description of the nature of a need for any consultant's participation, if applicable.
6. Overhead rates.
7. Other direct costs, if applicable.

## **6 APPLICATION AND SUBMISSION INFORMATION**

### **6.1 STAGE 1 TECHNICAL PAPER FORMAT**

Technical papers must cite the BAA number and the topic name. Technical papers shall be no longer than 25 pages. CPARS/PPIRS Reports and Relevant Experience Forms (Attachment D to the BAA) do not count towards the page limitation. If respondents submit SF 294 reports with their Relevant Experience Forms, the SF 294 reports shall not count toward the page limitation. A page is defined as an 8 ½ x 11-inch paper, single-sided, one-inch margins, and a typeface of 10-pitch except for Attachment 2 Relevant Experience Form, which can be filled out with the margins and typeface provided.

### **6.2 TIME AND DATE OF SUBMISSION**

Technical papers must be submitted electronically by 10:00 a.m. PST on 15 September 2010 and shall be unclassified.

### **6.3 ELECTRONIC SUBMISSION**

Respondents shall register in the SPAWAR E-Commerce Central (E-CC) and select their own passwords in order to submit their technical papers, and if selected for Stage 2, PWS and cost proposal. Respondents are required to read the "Submitting a Proposal?" guide on the SPAWAR E-CC website. For information about electronic submission, please visit the SPAWAR E-CC at <https://e-commerce.sscno.nmci.navy.mil>.

Respondents shall submit their technical papers, and if selected for Stage 2, PWS and cost proposal, electronically to SPAWAR in accordance with the instructions contained in this provision. Respondents shall submit their signed documentation as either scanned "TIFF" or "PDF" documents (which shall be created using Adobe Acrobat Version 4.01 or greater) except for the Stage 2 cost proposal, which shall be an MS Excel document. All documents shall be submitted electronically via the SPAWAR E-Commerce Central (SPAWAR E-CC).

Each electronic file shall be clearly marked with the BAA number, Respondent's name, and topic. File names must begin with the word "CRR," followed by an underscore ("\_") and the Respondent's company name (Example: "CRR\_XYZ Inc.doc" would be used for a paper from Company XYZ Inc in a Word document (.doc) format). This file-naming convention will permit systematic cataloging and distribution of the papers for evaluation.

Electronic proposal files shall not contain classified data. Proposal files may be compressed (zipped) into one, self-extracting file entitled "PROPOSAL.ZIP" using WinZip version 6.3 or greater.

Technical papers submitted electronically will be considered "late" unless the Government is in receipt of the Respondents entire technical paper, including all attachments, prior to the due date and time for receipt of technical papers.

## **7 ELIGIBILITY INFORMATION**

All responsible, potential Respondents from academia and industry are eligible to submit technical papers. SPAWAR encourages proposals from Black Colleges and Universities, Minority Institutions (including Hispanic Serving Institutions and Tribal Colleges and Universities) and minority researchers, as well as Small Businesses, HUBZone Small Businesses, Small Disadvantaged Businesses, Veteran-Owned Small Businesses (including Service-Disabled Veteran-Owned Small Businesses), and Women-Owned Small Businesses. However, no portion of this BAA is set aside for a specific group.

## **8 AGENCY CONTACTS**

All questions regarding this BAA shall be directed to the Contract Specialist, Ken Nickel, email: [kenneth.nickel@navy.mil](mailto:kenneth.nickel@navy.mil), with a copy to the Contracting Officer, Frederick Renz, email: [frederick.renz@navy.mil](mailto:frederick.renz@navy.mil). No hard copy version of this BAA will be made available. Questions shall be submitted no later than 25 August 2010 and will be answered by 30 August 2010.

## **9 STAGE 1 NOTIFICATION**

Respondents will receive notification approximately six (6) weeks following completion of the Stage 1 evaluation process. The Government reserves the right to select all or some portion of a single technical paper for Stage 2. The Government also reserves the right to cancel the BAA and not award a contract after receipt of technical papers. The Government may incrementally fund any award issued under this BAA. The Government provides no funding for direct reimbursement of technical paper development costs. Technical papers (and any other material) submitted in response to this BAA will not be returned.

Following completion of the Stage 1 evaluation, the selected Respondent will be invited to submit a finalized PWS and cost proposal (Stage 2) within 30 calendar days of notification by the Contracting Officer. **No debriefings of technical paper evaluations will be provided.**

## **10 ADDITIONAL INFORMATION**

### **10.1 ORGANIZATIONAL CONFLICT OF INTEREST (OCI)**

(a) The attention of the Respondent is directed to FAR Subpart 9.5 relating to Organizational Conflicts of Interest (OCIs).

(b) If applicable, prospective Respondents are requested to furnish with their technical papers information regarding any existing or potential conflicts of interest.

(c) It is the responsibility of the Respondent to identify and disclose OCIs. Respondents shall address any existing or potential OCIs in their proposals and shall include a plan to mitigate all OCIs identified. The Government intends to evaluate only the mitigation plan of the apparent successful Respondent (if provided). The mitigation plan will not be part of the technical evaluation. However, the Government may reject proposals from Respondents with OCIs that are not adequately mitigated. The proposed mitigation plan must mitigate all conflicts of interest such that the full scope of work contemplated in this solicitation may be performed by the Respondent. Failure to disclose OCI issues known or identified prior to award or discovered after award, or misrepresenting relevant information to the Contracting Officer, is grounds for termination for default, debarment from Government contracts, and/or other remedies permitted by law or this contract.

(d) An OCI mitigation plan, if submitted, should address but not be limited to the following information:

- a) How the company plans to identify and track actual or potential OCIs;
- b) How source selection information or proprietary data will be physically safeguarded (e.g., locked file cabinets, safes, etc...);
- c) How company personnel working on the contract will be segregated from the rest of the company workforce and, if required, report through separate chains of command;
- d) Data security measures, including how computer workstations dedicated to the contract will be maintained in separate, secure areas and will require unique passwords for access;
- e) How the company plans to handle an improper disclosure of sensitive information and how it is communicated to the Contracting Officer;
- f) How the OCI clause is flowed down to subcontractors and how it is administered;
- g) Training of personnel in their non-disclosure and procurement integrity responsibilities including penalties the company may impose if sensitive information is disclosed;
- h) The process for obtaining NDAs executed between the company and subcontractors as well as those signed by company employees.

## **10.2 UNAUTHORIZED DISCLOSURE**

Technical papers submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-5 and 15.207. Government personnel will perform the evaluation of technical papers, with MITRE in an advisory role. All other support contractors, as identified in Section 4.1, may assist for administrative purposes only. Technical paper selection and award decision are solely the responsibility of Government personnel. Any individual having access to technical papers, the PWS, and/or the cost proposal submitted in response to this BAA will be required to sign a NDA prior to receipt of any technical paper submissions.

**Appendix A: PMW 760 Common Radio Room Work Breakdown Structure (WBS) for DDG Flight IIA ship Radio Central Operations**

<b><i>PMW 760 Common Radio Room Work Breakdown Structure (WBS) - DDG-51 Flight IIA ship</i></b>			
1.0 Command	1.1 Planning	1.1.1	1.1.1 Receive OPORD and turn OPTASK Plan into a usable comm plan
		1.1.2	1.1.2 Implement COMM PLAN upon deployment, during an exercise, AOR change, or changing mission/activities
		1.1.3	1.1.3 Process changes to comm plan
	1.2 Telecom. Mgt	1.2.1	1.2.1 Conduct pre underway equipment checks
		1.2.2	1.2.2 Prepare for communications inspections
	1.3 Special Conditions	1.3.1	1.3.1 Implement special condition (EMCON, INFOCON, HERO)
		1.3.2	1.3.2 Take down special condition (EMCON, INFOCON, HERO)
	1.4 Coordination	1.4.1	1.4.1 Maintaining communication status (e.g., status board, excel log, grease board)
		1.4.2	1.4.2 Briefing watch relief (turnover)
		1.4.3	1.4.3 Validate status after turnover
		1.4.4	1.4.4 Maintain messages required for communication circuit operations
	1.5 Reporting	1.5.1	1.5.1 Prepare Briefs
		1.5.2	1.5.2 Prepare 8 o'clock reports
		1.5.3	1.5.3 Report Catastrophic events
		1.5.4	1.5.4 Report via chain of command & CSOW/CSMC (Combat Systems Officer Watch, Combat Systems Maintenance Central)
	1.6 Troubleshooting	1.6.1	1.6.1 Establish connectivity with servicing communications center
		1.6.2	1.6.2 Notify system tech of problems
		1.6.3	1.6.3 Troubleshoot problems with servicing center
		1.6.4	1.6.4 Process radio frequency telecommunications trouble calls
		1.6.5	1.6.5 Write comm. spots
	1.7 Monitoring	1.7.1	1.7.1 Monitor communications system logs
		1.7.2	1.7.2 Monitor broadcast channels to ensure accuracy
		1.7.3	1.7.3 Manage radio frequency test equipment
1.7.4		1.7.4 Conduct quality control monitoring on communications systems and processes	
1.7.5		1.7.5 Monitor the quality of RF signals	

			received/transmitted	
		1.7.6	1.7.6 Monitor antennae status	
	1.8 Publications	1.8.1	1.8.1 Maintain current defense information systems agency publications	
		1.8.2	1.8.2 Use Communications publications to ensure proper communications	
2.0 Radio Functions	2.1 HF	2.1.1	2.1.1 Configure HF Radio	
		2.1.2	2.1.2 Modify HF Radio	
		2.1.3	2.1.3 Create HF circuit	
		2.1.4	2.1.4 Modify HF circuit	
		2.1.5	2.1.5 Take down HF circuit	
		2.1.6	2.1.6 Enter HF comm plan into CMS or CRCU	
		2.1.7	2.1.7 Modify HF comm plan	
		2.1.8	2.1.8 CMS or CRCU to load the HF comm plan	
		2.1.9	2.1.9 Reactive HF circuit with failed equipment using spare equipment	
		2.1.10	2.1.10 Monitor HF	
		2.1.11	2.1.11 Operate HF	
		2.2 UHF LOS	2.2.1	2.2.1 Configure UHF LOS Radio
			2.2.2	2.2.2 Modify UHF LOS Radio
			2.2.3	2.2.3 Create UHF LOS circuit
			2.2.4	2.2.4 Create UHF LOS Data circuit (Link)
			2.2.5	2.2.5 Modify UHF LOS circuit
			2.2.6	2.2.6 Take down UHF LOS circuit
			2.2.7	2.2.7 Reactive UHF LOS circuit with failed equipment using spare equipment
			2.2.8	2.2.8 Inspect UHF LOS for proper operation
			2.2.9	2.2.9 Troubleshoot UHF LOS
			2.2.10	2.2.10 Monitor UHF LOS
			2.2.11	2.2.11 Operate UHF LOS
			2.2.12	2.2.12 Configure HAVE QUICK
			2.2.13	2.2.13 Troubleshoot HAVE QUICK
		2.3 VHF LOS	2.3.1	2.3.1 Configure VHF LOS Radio
			2.3.2	2.3.2 Modify VHF LOS Radio
			2.3.3	2.3.3 Create VHF LOS circuit
			2.3.4	2.3.4 Modify VHF LOS circuit
			2.3.5	2.3.5 Take down VHF LOS circuit
			2.3.6	2.3.6 Reactive VHF LOS circuit with failed equipment using spare equipment
			2.3.7	2.3.7 Inspect VHF LOS for proper operation
			2.3.8	2.3.8 Troubleshoot VHF LOS
			2.3.9	2.3.9 Monitor VHF LOS
			2.3.10	2.3.10 Operate VHF LOS
			2.3.11	2.3.11 Configure SINCGARS
			2.3.12	2.3.12 Troubleshoot SINCGARS
	2.4 UHF SATCOM	2.4.1	2.4.1 Set up UHF SATCOM	
		2.4.2	2.4.2 Acquire UHF SATCOM satellite	
		2.4.3	2.4.3 Change UHF SATCOM satellite	

		2.4.4	2.4.4 Modify UHF SATCOM circuit
		2.4.5	2.4.5 Set up/load crypto on UHF SATCOM
		2.4.6	2.4.6 Inspect UHF SATCOM for proper operation
		2.4.7	2.4.7 Troubleshoot UHF SATCOM
		2.4.8	2.4.8 Monitor UHF SATCOM
		2.4.9	2.4.9 Operate UHF SATCOM
	2.5 EHF	2.5.1	2.5.1 Set up EHF
		2.5.2	2.5.2 Acquire EHF satellite
		2.5.3	2.5.3 Change EHF satellite
		2.5.4	2.5.4 Modify EHF circuit
		2.5.5	2.5.5 Set up TIP
		2.5.6	2.5.6 Modify TIP
		2.5.7	2.5.7 Set up/load crypto on EHF
		2.5.8	2.5.8 Inspect EHF for proper operation
		2.5.9	2.5.9 Troubleshoot EHF
		2.5.10	2.5.10 Monitor EHF
		2.5.11	2.5.11 Operate EHF
	2.6 SHF	2.6.1	2.6.1 Set up SHF circuit
		2.6.2	2.6.2 Acquire SHF satellite
		2.6.3	2.6.3 Change SHF satellite
		2.6.4	2.6.4 Modify SHF circuit
		2.6.5	2.6.5 Set up/load crypto on SHF
		2.6.6	2.6.6 Inspect SHF for proper operation
		2.6.7	2.6.7 Troubleshoot SHF
		2.6.8	2.6.8 Monitor SHF
		2.6.9	2.6.9 Operate SHF
	2.7 INMARSAT (i.e., Commercial Broadband Satellite)	2.7.1	2.7.1 Set up INMARSAT circuit
		2.7.2	2.7.2 Acquire INMARSAT satellite
		2.7.3	2.7.3 Change INMARSAT satellite
		2.7.4	2.7.4 Modify INMARSAT circuit
		2.7.5	2.7.5 Set up/load crypto on INMARSAT
		2.7.6	2.7.6 Inspect INMARSAT for proper operation
		2.7.7	2.7.7 Troubleshoot INMARSAT
2.7.8		2.7.8 Monitor INMARSAT	
2.7.9		2.7.9 Operate INMARSAT	
2.8 Handling	2.8.1	2.8.1 Maintain general message file	
	2.8.2	2.8.2 Perform minimize condition procedures	
	2.8.3	2.8.3 Route messages manually when required (command policy)	
	2.8.4	2.8.4 Upload naval messages via NAVMACS	
2.9 NAVMACS	2.9.1	2.9.1 Configure message processing system for reception	
	2.9.2	2.9.2 Configure message processing system for transmission	
	2.9.3	2.9.3 Direct messaging systems operations	
	2.9.4	2.9.4 Manage message system documentation	
	2.9.5	2.9.5 Monitor message broadcast equipment for proper operation	

Common Radio Room AM&C BAA, N00039-10-X-0003

		2.9.6	2.9.6 Operate message processing system
		2.9.7	2.9.7 Perform audit trails via automated systems
		2.9.8	2.9.8 Process messages for automatic dissemination
		2.9.9	2.9.9 Message Acknowledgments
		2.9.10	2.9.10 Manage operational communications messages
	2.10 CRYPTO	2.10.1	2.10.1 Review and destroy COMSEC material
		2.10.2	2.10.2 Receive electronic COMSEC material via OTAT
		2.10.3	2.10.3 Receive physical COMSEC material from EKMS Manager
		2.10.4	2.10.4 Sanitize communications center to protect sensitive information

**Appendix B: New Construction and Modernization Target Platforms for AM&C**

This information is posted to the NESI Collaboration Site, as described in Section 4.2. Please refer to that section for instructions on how to obtain access to this data.

**Appendix C: PEO C4I Roadmap Equipment Targeted for Integration with AM&C**

This information is posted to the NESI Collaboration Site, as described in Section 4.2. Please refer to that section for instructions on how to obtain access to this data.

**APPENDIX D: Relevant Experience Form**

1. Complete Name of Reference (Government agency, commercial firm, or other organization)	
2. Complete Address of Reference	
3. Contract Number or other control number	4. Date of contract
5. Date work was begun	6. Date work was completed
7. Contract type, initial contract price, estimated cost and fee, or target cost and profit or fee	8. Final amount invoiced or amount invoiced to date
9a. Reference/Technical point of contact (name, title, address, telephone no. and email address)	9b. Reference/Contracting point of contact (name, title, address, telephone no. and email address)
10. Location of work (country, state or province, county, city)	
11. Current status of contract (choose one): <input type="checkbox"/> Work continuing, on schedule <input type="checkbox"/> Work continuing, behind schedule <input type="checkbox"/> Work completed, no further action pending or underway <input type="checkbox"/> Work completed, routine administrative action pending or underway <input type="checkbox"/> Work completed, claims negotiations pending or underway <input type="checkbox"/> Work completed, litigation pending or underway <input type="checkbox"/> Terminated for Convenience <input type="checkbox"/> Terminated for Default <input type="checkbox"/> Other (explain)	
12. Provide brief information describing the success of your firm in furthering the policy of the United States to maximize practicable opportunities for small business concerns, HUBZone small business concerns, small business concerns owned and controlled by socially and economically disadvantaged individuals, and small business concerns owned and controlled by women to participate in this contract.	
13. When contracting with firms described in part 12 above, describe what, if any, procedures your firm established to ensure timely payment of amounts due.	
14a. Did this contract require a Small Business Subcontracting Plan pursuant to FAR 52.219-9? Yes ____, No ____. 14b. If "Yes" to 14a, have you regularly submitted SF 294/295 reports on time? Yes ____, No ____. 14c. Attach a copy of your most recently submitted SF 294.	
15. Provide a summary description of contract work, not to exceed two pages in length. Describe the nature and scope of work, its relevancy to this contract, and a description of any problems encountered and your corrective actions. Attach the explanation to this form.	
16. Indicate if Past Performance information for this contract is located in the Contractor Performance Assessment Reporting System (CPARS), the Past Performance Information Retrieval System (PIRS) or not in either system.	