Code 34
Electronic Warfare
Engineering and Technical Services
Pre-Solicitation Conference

Presented at:
NUWC Division Newport
Building 80 Gymnasium
Dec 5, 2017

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Agenda

• Introduction/Ground Rules
• Disclaimer Statement
• Anticipated Procurement Strategy
• Electronic Warfare Requirements Overview
• PWS Requirements
• Conclusion/Wrap-up
Introduction/Ground Rules

• Introduction of participants

• Intent of this pre-solicitation conference is to encourage competition by:
  – Providing technical information to provide potential offerors a better understanding of the technical requirements for prime and subcontracting opportunities
  – Ensure all potential offerors receive, and have access to, the same information

• Technical “Q&A” is encouraged
  – Q&A will be answered, either today or via SeaPort-e Portal
  – Q&A/Feedback Forms
  – No questions about incumbent contractor
• Recommended all attendees sign-in (this is voluntary)
• Please silence cell phones and pagers. No personal recording
• Q&A will be recorded, typed, and posted to the SeaPort-e Portal
• The Attendees list will be posted to the SeaPort-e Portal
• This briefing will be posted to the SeaPort-e Portal and the NUWCDIVNPT Electronic Reading Room:
  - http://www.navsea.navy.mil/Home/Warfare-Centers/NUWC-Newport/Partnerships/Business-Partnerships/Electronic-Reading-Room
• DO NOT directly contact the NUWC technical code after today
  – All further dialogue will be accomplished via the Q&A feature on the SeaPort-e Portal

• Technical requirements contained in this briefing are presented as a summary
  – Full/updated technical requirements will be provided in the Request for Proposal (RFP)
Disclaimer Statement

- Remarks today by Government officials involved in the Code 34 Electronic Warfare Engineering and Technical Services requirement should not be considered a guarantee of the Government’s course of action in proceeding with the acquisition.
- The informational briefing shared today reflects Government’s current intentions and is subject to change based on a variety of circumstances.

The formal solicitation, when issued, is the only document that should be relied upon in determining the Government’s requirements.
Anticipated Procurement Strategy

• This is a follow-on to existing NUWCDIVNPT N00178-04-D-4122-N435
  – Multiple offers received
  – SeaCorp is the incumbent

• SeaPort-e Task Order, Zone 1, Northeast
  – Prime
  – Sub

• Five (5) year Period of Performance
  – Base year plus 4 one year options
  – Unrestricted planned; however, Sources Sought will be issued in coming days

• Combined Contract LOE: 617,985 Hours (TBD) FF & (TBD) CPFF (mostly CPFF)

• Other Direct Costs (ODC’s) over five years:
  – Travel $1,286,040
  – ODCs $50,000
  – Materials $5,000,000

• Clearance Level: Top Secret
  – Approximately 1% of overall tasking

• Estimated Schedule:
  – Draft RFP Release: February 2018
  – RFP Release: August 2018
  – Proposals Due: 45 days after RFP release
    • Sample problems
  – Award Date: February 2018
Anticipated Procurement Strategy (cont.)

• Organizational Conflict of Interest (OCOI) Clause Applies

• Work Locations
  – 10% Government Site, 90% Contractor Site

• Facilities
  – Government will provide facilities for on-site personnel
  – Facility Security Clearance Required: Top Secret (not for storage)
  – Government Furnished Materials/Equipment/Information (GFM/E/I) issued with Technical Instructions (TIs)

• Certifications Required
  – NAVSEA 04XQ approved quality system
  – Be on the Regional Maintenance and Modernization Coordination Office (RMMCO) list of approved Alteration and Installation Teams (AITs)
  – Welding in accordance with NAVSEA S9074-AR-GIB-010/278 and T9074-AD-GIB-010/1688

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Code 34 has realigned our contracting portfolio
- Several Department wide general services/supplies contracts
- Program specific engineering and technical services contracts
- Product specific services and supplies contracts

EW program requirements have changed
- Existing Design, Integration and AEA contracts don’t fit future program requirements (post EW NGA)
- A single integrated Eng & Tech Svcs contract is required to serve: ATD, TDA, AEA and ISEA program missions
- EW is a highly specialized technical program

Code 34 future wide contracts will augment this contract
- Program Management, Financial Management & IT Support
- Advanced Development (i.e. Prototyping)
- Fabrication (i.e. Build to Print)

This new contract will align the EW program to 34’s portfolio
This is the first of the 2\textsuperscript{nd} generation program specific services contracts
Requirements Change (Important)

- Code 34’s EW Program is in transition
- Design and Integration no longer key drivers
- Looking for broad, full spectrum EW services
  - Submarine, Surface and Air platforms
  - PWS will be broader to support dynamic needs
  - Limited ODCs in this contract
  - HW acquired via other vehicles
- Hypothetical Questions will require bid teams to demonstrate broad expertise in EW systems
  - Solid technical approaches to bid question
  - Qualified personnel to perform proposed approaches
- A five year contract to support post NGA EW

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2.0 Scope

The Contractor shall provide engineering and technical services across the Engineering and Manufacturing Development, Production and Deployment; and Operations and Support phases of the EW systems’ life-cycle. EW Systems (Systems) are defined as the overall EW System, its subsystems, assemblies and components; its interface with other systems and the associated equipment; sensor payloads; Special Project/Carry-on components; and other electro-magnetic systems (EMS). Tasking includes the design, development, prototype, testing, analysis, integration, and installation of new systems (AEA); and the maintenance, troubleshooting, repair, and upgrade of legacy systems (ISEA). Engineering, technical, operations and production of Systems will commence after the component or breadboard has been validated in the laboratory or relevant environment (TRL 4-5) and conclude immediately after production of Initial Product Baseline equipment and prior to Low-Rate Initial Production (LRIP).

The majority of the work will be at the Secret level or below; however, there are circumstances that require personnel to be cleared for access to Top Secret (TS)/Sensitive Compartmented Information (TS/SCI).
2.1 Places of Performance
• Newport, RI
• Groton, CT
• Norfolk, VA
• Washington, DC
• Kingsbay, GA
• Portsmouth, NH
• San Diego, CA
• Bremerton, WA
• Pearl Harbor, HI
• Guam
• Other locations identified in TIs

2.2 Authorized users

2.3 Sponsors
The Government contemplates the following sponsors funding this Task Order: PMS435, PMS450, PMS397, SYSCOMs, TYCOMs, NRL, ONI, ONR, and DLA.
4.0 Requirements

4.1 Engineering, Systems Engineering and Process Engineering

4.1.1 Develop New Capabilities/Systems
Complete studies to assess differences between the current Systems and capabilities and future operations and missions, and determine if future and long-term needs will be met.

4.1.2 Significant Alterations to Existing Systems
Complete studies to assess differences between the current Systems and capabilities and current operations and missions, and determine if current and near-term needs are being met and when inadequacies are likely to start occurring.

4.1.3 Integration of Existing Equipment or Software into Different Applications or Platforms
Complete studies to assess and the integration of current Systems and capabilities into new and different applications or platforms.

4.1.4 Evaluation of Foreign and Non-Developmental Systems and Technologies
Complete studies to evaluate foreign and non-developmental systems and technologies.

4.2 Modeling, Simulation, Stimulation, and Analysis Support
The Contractor shall use a standardized, rigorous, structured methodology to create and validate a physical, mathematical, or otherwise logical representation of the system, entity, phenomenon, or process.
4.3 Prototyping, Pre-Production, Model-Making, and Fabrication

4.3.1 Create and Validate Logical Representation of the System
Fabricate, build, assemble, test, operate and evaluate reduced and full scale models, mock-ups, prototypes, pre-production units, and research and development (R&D) test tools of Systems.

4.3.2 Fabrication and Machining of Replacement Parts or Equipment
Fabricate and machine replacement parts or equipment for fielded systems or platforms.

4.4 System Documentation and Technical Data Support

4.4.1 Prepare Detailed Technical Data Documentation
Draft, review, update and revise System documentation and technical data to support System development, modification, upgrade, modernization or integration.

4.4.2 Interoperability, Testing and Evaluation and Trials Support Documentation
Develop, update, and maintain test plans, test procedures and test documentation that address the scope, methods, and steps for conducting interoperability, testing and evaluation and trials support of Systems.
4.5 Software Engineering, Development, Programming, and Network

4.5.1 Analysis, Development and Selection of Hardware and Software
Perform engineering studies and analysis, development and selection of hardware, firmware, and software; or modifications to existing hardware, firmware and software for Systems, test facilities, or training facilities.

4.5.2 Software Requirement Specifications
Develop, adapt, modify, and maintain Software Requirement Specifications (SRS), Software Design Descriptions (SDD), System Requirements Verification Matrix (SRVM), Database Design Documents (DBDD), Software Test Plans (STP), Software Test Descriptions (STD), Software Test Reports, Software Version Description (SVD) and Software Product Specifications (SPS) in support of Software Development of production, simulation, and prototype code.

4.6 Reliability, Maintainability, and Availability
Complete engineering, scientific, and analytical studies to analyze, evaluate, and design Reliability, Maintainability, and Availability (RM&A) requirements.

4.7 Human Factors Engineering
Complete engineering, scientific, and analytical studies to analyze, evaluate, and design human and equipment interfaces and interactive systems (i.e. ergonomics, biotechnology, human engineering, human factors engineering) to achieve equipment that is safer, secure and easier to use and maintain.

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4.8 Systems Safety Engineering
Complete studies to fully and accurately assess and estimate risk, and ensure that safety is considered in all aspects of System design, development, operation, maintenance, and modification.

4.9 Configuration Management
Complete studies to identify, analyze, verify, and document the functional, performance, and physical characteristics of Systems to control changes and nonconformance, and to track actual configurations of Systems.

4.10 Quality Assurance (QA)
Complete studies and implement protocol to ensure that the materials, processes, products and services used in the design, development, fabrication, manufacture, testing, installation and maintenance of Systems results in quality products and services.

4.11 Interoperability, Test and Evaluation, Trials Support

4.11.1 Interoperability Testing Studies
Complete studies to ensure developed Systems have been properly tested and that joint interoperability requirements have been fully met at all levels of their life cycle.
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Complete studies to ensure developed Systems have been properly tested and that joint interoperability requirements have been fully met at all levels of their life cycle.

4.11.2 Testing
Provide on-site technical and engineering services during the installation, testing and evaluation of prototype, pre-production, and operational Systems, and during the training of personnel operating and maintaining the Systems.

4.11.3 Testing Data
The Contractor shall observe, record, and provide recommendations to Government personnel during dockside or at-sea testing operations.

4.12 Supply and Provisioning support

4.12.1 Systems Sustainment
The Contractor shall complete studies to ensure developmental and fielded systems are materially sustained.

4.12.2 Material Inventory
The Contractor shall perform material inventory management. The Contractor shall receive store and ship material, maintain and update the Government-owned Fleet material inventory database (Inventory Pro), and perform material condition assessments.
4.12.3 Material Assessments
Perform assessments of material configuration and condition.

4.12.4 Material Reduction
Perform inventory reduction analysis and disposal.

4.13 Training Support

4.13.1 Training Recommendations
The Contractor shall complete studies and provide recommendations for the development of training curricula to ensure that the warfighter and technical support community is provided with adequate instruction including applied exercises resulting in the attainment and retention of knowledge, skills, and abilities regarding the platforms, systems, and warfighting capabilities they operate and maintain.

4.13.2 Training Curricula Development
Develop, update, and maintain training plans, course curriculums, and training documentation.

4.13.3 Training
Provide training materials, instructors and conduct training courses.
4.14 In-Service Engineering, Fleet Introduction, Installation and Checkout

4.14.1 Technical Data Analysis
The Contractor shall collect technical data and analyze performance results and issues. SCI-level access by contract personnel is required when the system is operating at the SCI level and when onboard US Navy vessels operating in an SCI-level security posture.

4.14.2 System Repair
Provide troubleshooting, defect identification, defect isolation and repair of Systems.

4.14.3 Grooming and Certification
Provide expert engineering and technical guidance to field activities and fleet personnel during installation, grooming, checkout, repair or certification of Systems as well as for alteration proof-ins, system grooming, system checkout, repairs, configuration validation, and system certification.

4.14.4 Technical Investigation
Conduct technical investigations on developmental and operational Systems.

4.14.5 Failure Analysis.
Conduct failure analysis and provide failure analysis report identifying root cause failure modes, mechanisms and parts.

4.14.6 Tactical Libraries and Databases
Create and update tactical libraries and Database Guidance Documents (DBDG).

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4.14.7 Help Desk (Firm-Fixed Price)
Provide a subject matter expert (SME) to answer calls to the helpdesk hotline 24/7/365.

4.14.8 System Upgrade and Modernization
Complete studies and recommend engineering solutions which result in modernizations to in-service systems.
Labor Categories and Hours

All bidders will be required to provide cost estimate for the Government’s estimated labor categories and hours
  • Supports better cost analysis

Bidders are encouraged to recommend alternative approaches
  • Must include rational/benefit for alternative approach
  • i.e. “propose using more Eng III and less Eng IV. Eng IV will check work vice perform tasks

2080 hours - 80 hours for federal holidays = 2080 - 80 hours vaca/SL = 1920 workhours a year
Conclusion/Wrap-up

• Thank you for your interest in the Code 34 Electronic Warfare Engineering and Technical Services requirement
  – Remember the RFP is the ONLY OFFICIAL GOVT REQUIREMENT!!
  – Information provided above may change prior to RFP.
• The attendees list will be posted to the SeaPort-e Portal
• This briefing will be posted to the SeaPort-e Portal and the NUWCDIVNPT Electronic Reading Room
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NETWORK, BUILD YOUR TEAMS, WE’RE LOOKING FOR OUR EW ENGINEERING AND TECHNICAL SERVICES SUPPLIER TEAM FOR THE NEXT 5 YEARS!

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