



DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER WEAPONS DIVISION
ADMINISTRATIVE BUILDING OFFICE BUILDING SUITE 101
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IN REPLY REFER TO:
DA FORM 101-2

**JUSTIFICATION AND APPROVAL
FOR USE OF OTHER THAN FULL AND OPEN COMPETITION**

1. Contracting Activity.

Naval Air Warfare Center Weapons Division (NAWC-WD) - China Lake, CA

2. Description of the Action Being Approved.

This justification and approval authorizes and approves on sole basis a contract award. The sole source contractor is Rockwell Collins, Inc. – Government Systems Dallas Division located at 3200 E Renner Rd., Richardson, TX 75082-2402.

3. Description of Supplies/Services.

The Airborne Electronic Attack (AEA) Integrated Product Team (IPT) has the responsibility to design, develop, integrate, test and distribute all Operational Flight Programs (OFPs) to the Fleet, to perform final system integration for all improvements and to provide independent technical evaluation and testing of changes. The AEA IPT has been assigned the responsibility of AN/USQ-113 Software Support Activity (SSA) for the EA-6B. The AN/USQ-113 Radio Countermeasures Set will be used as communications surveillance and jamming system onboard US Navy EA-6B aircraft for fleet airborne Electronic Support (ES) and Electronic Attack (EA) operations.

The AEA Communication Jammers Integrated Product Team (IPT) has been tasked to implement Overseas Contingency Operations (OCO) effort 'USQ-113 Ineffective Jamming' as part of the Block 6 upgrade to the ICAP III Block 6 aircraft. The ICAP III system uses the AN/USQ-113 receiver for emitter detection, and its integrated system then responds with transmitter jamming to counter the threat. This contract will address the AN/USQ-113 Jamming deficiencies and enhancements in the Radio Frequency (RF) Controller as part of an integrated USQ-113 software release. The requirements, design, coding, and preliminary release of software shall be compatible and merged into a synergistically integrated package, in the USQ-113 v8.4 software development.

The estimated value of the Rockwell Collins contract is \$645,000.00 and will be funded with FY11 & FY12 (b)(2)High Funds.

The OCO effort is defined as an improvement to jamming effectiveness that reschedules the scan jam periods to provide improved coverage time while still providing an improved detection capability. Changes to the RF Controller's Jam/receive timing algorithms will include: the implementation of a pre-planned receive time, and the scanning of multiple targets uses an optimized acquisition scheme that results in faster scanning. Changes to the USQ-113 software will require modified Mission data files and control of new jam/receive parameters. Mission Planning and Electronic Warfare Data Systems (EWDS) may be affected in the same way to a smaller extent. The details are defined in classified slides already provided to Rockwell Collins.

See Appendix A for Estimated Dollar Value

4. Statutory Authority Permitting Other Than Full and Open Competition.

10 U.S.C. 2304(c)(1). Only one responsible source and no other supplies or services will satisfy agency requirements.

5. Rationale Justifying Use of Cited Statutory Authority.

The EA-6B ICAP III program is intended to upgrade the existing EA-6B Block 89A aircraft with war fighting capabilities which allow it to execute its mission to the year 2018, which is the end of the EA-6B's mission as the Navy's Electronic Attack Platform. Specific ICAP III upgrades include the addition of a new AN-ALQ-218 electronic warfare receiver with selective reactive jamming capability to counter frequency-hopping intercept radars, Link 16 data link, and an integrated communications jamming system. Part of the ICAP III includes software enhancement to the RF Controller of the USQ-113(V) 4 System in order to improve performance. Enhancements include full-duplex reactive jamming, jam on energy detection mod, programmable random tone parameters, improved reactive response, and reactive search mode.

Rockwell Collins is the designer and developer of the AN.USQ-113's RF Controller. The AN.USQ-113 will need to be periodically updated to correct identified deficiencies in order to meet the fleet's mission effectiveness. Improvements to the AN.USQ-113 system will be required to improve detection, classification, and jamming strategies in the system to counter the threat changes. Threat countries may be provided modernized communication equipment could easily render the current system to ineffective unless a change to the system is engineered. Adapting the system to the fleet's changing operational requirements will also be required.

Rockwell Collins, to the exclusion of other contractor's, has the data, technical expertise, and equipment required. Rockwell Collins' exclusive possession is a result of continuing support on NAVAIR contracts efforts (Block upgrades from 82/89 to 89A and 89A to ICAP III configurations). Rockwell Collins, as the exclusive AN.USQ-113 RF Controller developer, possesses proprietary data that has not been received by the government and data that is in the state of being changed to support on-going EA-6B Block upgrades.

6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable.

In accordance with FAR 5.201(b)(1) this requirement was synopsized via the Federal Business Opportunities (FEDBIZOPPS) website on August 25, 2011. No response or inquires have been received. Any future responses will be evaluated by the Contracting Officer.

7. Determination of Fair and Reasonable Cost.

In accordance with FAR 15.402(a), the Contracting Officer must ensure all supplies and support are procured at a fair and reasonable price. Analysis of the proposal will be performed by technical analysts and contract specialist, with the assistance of DCMA analysts and DCAA auditors as required. The Contracting Officer will analyze the various cost elements presented in the proposal. The Procuring

Contracting Officer will use Government expertise, including DCMA, DCAA, the Project Management Office (PMA) and other Government resources to evaluate the proposal's labor, travel and subcontract positions. A detailed report developed as part of the Government's evaluation will be utilized to establish a NAVAIR position.

8 Actions to Remove Barriers to Future Competition.

None at this time. Based on the rationale identified in paragraph five the efforts under this J&A are sole source to Rockwell Collins Government Systems Dallas.

Appendix A

Estimated Dollar Value In Thousands

| | FY11 | FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | Total |
|------------|------------|------------|------|------|------|------|------|----------|
| (b)(2)High | (b)(2)High | (b)(2)High | 0 | 0 | 0 | 0 | 0 | 645 |
| Total | (b)(2)High | (b)(2)High | 0 | 0 | 0 | 0 | 0 | \$ 645 k |