



DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION

IN REPLY REFER TO:
J&A_12_22847

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

1. Contracting Activity.

Naval Air Warfare Center Aircraft Division (NAWC-AD) Lakehurst, NJ

2. Description of the Action Being Approved.

This Justification and Approval (J&A) authorizes and approves the procurement of brand name Rohde and Schwarz test equipment in support of the United States Capitol Police (USCP) Radio Modernization project. This action will be on a fixed price basis.

3. Description of Supplies/Services.

The Special Communications Requirements (SCR) Division of the Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes has been tasked by the USCP to support the design, development, production, and test and evaluation of a new VHF trunked radio system. This project is an accelerated effort of national importance. This effort is being conducted in five (5) phases. During the procurements, integration and installation phase (Phase III), NAWCAD is responsible for all efforts required to procure, integrate, test and install this system in the Capitol complex, sixteen (16) additional buildings, and USCP vehicles. These efforts include material procurement/acquisition, fabrication of cables and equipment mounts, integration of equipment, equipment level testing, and subsystem level testing.

The USCP Radio Modernization System is susceptible to interference caused by rogue RF transmitter in the National Capitol Region. The system relies on 8 outdoor RF sites and 2 indoor RF sites to provide the required coverage of 95%.

This action is for the procurement of Rohde and Schwarz brand test equipment to test the USCP Radio system. The equipment will be used to detect multiple interference sources and allow for immediate identification and location of the interference and allow the USCP to make informed decisions on when to switch to a fail over scenario to maintain communication. The test equipment will be used to define and locate carriers of interference and/or discretion, and be able to determine why they are there and how they are affecting the radio system. The equipment must be both vehicle mountable and able to be used as hand held units for rapid deployment. The test equipment is required to be accurate and reliable in a high RF environment in which many unknown transmitters randomly come on the air.

The USCP requires a receiver based device with high selectivity and sensitivity which promotes accurate and timely target identification and location. The trunked radio system is very sensitive to interference which will incapacitate its operation which requires isolation and elimination of interfering sources. The

equipment must capture all modulation types and a wide range of frequencies from 300 kHz through 26 GHz. The USCP requires the ability to identify the source of interference in 10 minutes and resolve the interference issue itself in 30 minutes. The interference mitigation is required otherwise the USCP will be forced to execute the fail over plan and the trunked radio system could degrade up to 100% on several interference types. This would severely degrade communications for the USCP. The USCP is required to keep the system operational 99.999% of the time which equates to approximately five (5) minutes per year. Therefore there must be minimal time from the interference location being identified, to an analysis and resolution. The test equipment must also be able to perform clandestine transmitter demodulation.

This Limited Source/Brand Name J&A is valid for Rohde and Schwarz equipment identified at Enclosure 001 of this J&A. The total estimated value of this action is [REDACTED] and will be funded with Capitol Police, General Expense Funds.

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 existing USCP radio system is currently equipped and tested with Rohde and Schwarz test equipment. Due to the current architecture and design of the existing USCP radio system and the architecture of the new system that is currently being installed, the USCP must be capable of having test equipment that is interoperable amongst both radio systems. The Rohde and Schwarz test equipment and accessories are only interchangeable among other Rohde and Schwarz equipment and will not interface with other brand equipment.

Changing equipment manufacturers would cause an unreasonable burden to the USCP in the cost of training and support of the USCP Radio System and would also increase the risk of effectively supporting the USCP mission. Changing equipment manufacturers would force the USCP to spend approximately \$490K in additional funds for maintaining multiple configurations of test equipment (500K), increased sparing requirements (\$50K) and increased user and technician training (\$40K). These costs are not anticipated to be recouped through competition.

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

All items to be procured are commercial items. The SCR Subject Matter Expert (SME) for this procurement has determined that the source listed under Section 3 of this J&A for the required equipment is the only source capable of meeting this requirement. Failure to procure the required equipment will lead to interoperability issues when testing the USCP Radio System.

Market research was done for the Rohde and Schwarz test equipment. Searches were completed through Google, GSA Advantage and FEDSTOCK. A Google search located the OEM and several authorized distributors of the required items. Only some of the items required were found through a search of GSA Advantage and no information resulted in a search of FEDSTOCK.

A synopsis for this action, in accordance with 5.201, was posted to the FedBizOpps webpage on 17 August 2012 and closed 31 August 2012. No inquiries or challenges were received.

7. Determination of Fair and Reasonable Cost.

In accordance with FAR 15.402, the Contracting Officer shall ensure that the price negotiated for this acquisition is fair and reasonable. An independent estimate has been provided for this effort. The Contractor will submit a formal price proposal with sufficient information to support the accuracy and reliability of the estimate. The proposal will be reviewed by experienced technical personnel at SCR, cost analysts and contract specialists. The Contracting Officer will utilize price analysis in accordance with FAR 15.404-1 as the basis for negotiating a fair and reasonable price.

8. Actions to Remove Barriers to Future Competition.

This requirement will not be procured again.

Appendix A

Estimated Dollar Value in Thousands

| | FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 | Total |
|-------|------|------|------|------|------|------|------|-------|
| OCF | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | \$ k |