



DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION

IN REPLY REFER TO:
J&A_12_22830

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 Agilent 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 procurement, 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.

The USCP Radio Modernization System is susceptible to interference caused by rogue RF transmitters 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 Agilent brand test equipment to test the USCP Radio system. This test 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 in order to maintain constant 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 and bench top mountable. 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 also requires this test equipment to produce real-time custom test measurements and frequency analysis 'on-the-spot'.

The USCP requires a single piece of electronic test equipment capable of measuring signal voltage across all equipment interfacing with its new trunked simulcast system. The test equipment is required to provide end-to-end measurements across the following:

- Base station radio equipment
- Mobile and portable radio equipment
- Radio dispatch console audio equipment
- GPS receiver equipment
- Server and computer equipment

Additionally the test equipment must have an oscilloscope so that in the event of a system or sub-system failure, the failure can be quickly identified and resolved. This oscilloscope is required to be able to measure data traffic from both USB and ethernet interfaces, RF interfaces, voltage levels, and frequency domain analysis. This oscilloscope will be used to troubleshoot system malfunctions and to aid USCP in meeting the following maintenance response guidelines:

- Tier 1: Diagnostic and solution within 30 minutes
- Tier 2: Diagnostic and solution within 1 hour
- Tier 3: Diagnostic and solution within 2 hours

This Limited Source/Brand Name J&A is valid for the Agilent items identified below. The total estimated value of this action is [REDACTED].

1. Digital Signal Analyzer - 20 GHz 80/40 GSa/s 4 Ch 50M, qty (1), P/N: DSAX92004A
2. Precision Probe for 90000 series oscilloscopes - installed, qty (1), P/N: DSOX90000-001
3. I2C/SPI Protocol Decode - installed, qty (1), P/N: DSOX90000-007
4. InfiniiScan - installed, qty (1), P/N: DSOX90000-009
5. User-Defined Function - installed, qty (1), P/N: DSOX90000-010
6. RS-232/UART Protocol Decode - installed, qty (1), P/N: DSOX90000-015
7. USB 2.0 Protocol Decode - installed, qty (1), P/N: DSOX90000-016
8. MATLAB - Standard Digital Analysis Package, qty (1), P/N: DSOX90000-062
9. Removable Hard Drive - installed, qty (1), P/N: DSOX90000-801
10. Probe Amplifier, InfiniiMax III 20 GHz, qty (4), P/N: N2801A
11. InfiniiMax III Browser Probe Head, qty (4), P/N: N5445A
12. 3.5 mm to precision BNC Adapter, qty (4), P/N: N5442A
13. High Impedance adapter for 90000-X series, qty (4), P/N: N5449A
14. InfiniiMax III ZIF probe head, qty (4), P/N: N5439A
15. Performance verification and deskew fixture, qty (1), P/N: N5443A
16. Probe positioner- 3D, qty (4), P/N: N2787A
17. Active probe - 2 GHz single-ended, qty (4), P/N: N2796A
18. InfiniiMax III 2.92mm differential probe head, qty (4), P/N: N5444A
19. Blocking Capacitor, 45MHz - 26.5GHz, qty (4), P/N: 11742A
20. Vector Signal Analysis Software (PC/Instrument License), qty (1), P/N: 89601B
21. Basic VSA, no HW connectivity, inc 12 mth subscription service, qty (1), P/N: 89601B-200
22. Hardware Connectivity, qty (1), P/N: 89601B-300
23. Vector Modulation Analysis, qty (1), P/N: 89601B-AYA
24. Infiniium DSO - 2.5 GHz, 10/20 GSa/s, 4 Ch, qty (1), P/N: DSO9254A
25. Removable Hard Drive - installed, qty (1), P/N: DSO9000A-801
26. Current Probe, 100 MHz AC/DC with AutoProbe, qty (4), P/N: N2893A
27. Eval Kit for InfiniiVision and Infiniium 9000 Series Oscilloscopes, qty (4), P/N: N2918B

28. InfiniiMax III Browser replacement tips (kit of 4), qty (4), P/N: N5476A
29. High-performance input cable, 2.92mm connectors, 1m length, 40GHz, qty (4), P/N: N2812A
30. Additional removable HDD for M890/Win7-based 90000 series scopes, qty (2), P/N: N5474C
31. Additional removable HDD for M890/Win7-based 9000 series scopes, qty (2), P/N: N2745B
32. InfiniiMax III ZIF Tip, qty (5), P/N: N2838A
33. Differential probe- 6GHz, qty (4), P/N: N2752A
34. Agilent spectrum visualizer for infiniium oscilloscope, qty (1), P/N: 64996A
35. Infiniium PC-Based Scope analysis software, qty (1), P/N: N8900A

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 Agilent 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 Agilent test equipment and accessories are only interchangeable among other Agilent 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 \$590K 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 conducted for the required Agilent 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 on 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 government 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 the Contract Specialist. 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 |
|-------|------|------|------|------|------|------|------|-------|
| | | | | | | | | |
| Total | | | | | | | | |

CERTIFICATIONS AND APPROVAL

TECHNICAL/REQUIREMENTS CERTIFICATION

I certify that the facts and representations under my cognizance which are included in this Justification and its supporting acquisition planning documents, except as noted herein, are complete and accurate to the best of my knowledge and belief.

Technical Cognizance:

[Redacted] Name (Printed) Phone No. Date

LEGAL SUFFICIENCY REVIEW

I have determined this Justification is legally sufficient.

[Redacted] Name (Printed) Phone No. Date

CONTRACTING OFFICER CERTIFICATION

I certify that this Justification is accurate and complete to the best of my knowledge and belief.

[Redacted] Name (Printed) Phone No. Date

APPROVED

Upon the basis of the above justification, I hereby approve the solicitation of the proposed procurement(s) described herein using other than full and open competition, pursuant to the authority of 10 U.S.C. 2304(c)(1), Only one responsible source and no other supplies or services will satisfy agency requirements.

[Redacted] Date