



DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION

IN REPLY REFER TO:
J&A_14_24256

**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 authorizes and approves the issuance of a firm fixed price contract for the procurement of seventy-seven (77) environmental Outdoor Enclosure Units (ODU5), P/N 01-000643-002, on a sole source basis to Globecomm Systems Incorporated (Globecomm), of Hauppauge, NY. This requirement will support the NAWCAD Special Communications Requirements (SCR) Division, St. Inigoes, Maryland, Weapons of Mass Destruction - Civil Support Team (WMD-CST) Unified Command Suite (UCS).

3. Description of Supplies/Services.

The SCR Division of NAWCAD St. Inigoes has been tasked by the Joint Product Manager, Chemical, Biological, Radiological, Nuclear, Explosive Analytics & Response (CBRNE) Systems to perform a modernization of existing Ku-Band satellite antenna systems integrated within fielded UCS units. The UCS is a Command, Control, Computer, and Communication (C4) vehicle providing classified and unclassified voice, video and data communications capability in support of the WMD-CST mission. This procurement of the Globecomm ODU5, quantity seventy-seven (77), is required as part of the antenna modernization effort.

The fielded UCS fleet is currently integrated with a modified Commercial-Off-the-Shelf Ku-Band Satellite 1.2m antenna system manufactured by AvL Technologies (AVL), the AVL 1278KFD. The ODU5 is a fully enclosed outdoor environmental unit integrated with the following equipment: an iDirect E800 (Evolution) satellite modem, an AC-DC power supply and distribution system, an ethernet switch, and a thermo-electric cooler/heater to protect the UCS antenna system from the elements when operating outside the UCS for remote operations. The ODU5 is used to enable Ku-Band satellite reach back which provides voice, video, and data communication traffic to and from the UCS vehicles. The ODU5 is integral to the operations of the AVL 1278KFD antenna, providing operational power distribution, antenna control signaling, system configuration, diagnostics, and a data traffic modem between the UCS network and the AVL 1278KFD Antenna for transmission via satellite.

The ODU5 is a direct form, fit and function replacement of the ODU3 currently integrated with the AVL antenna system. The ODU5's size, weight, ventilation requirements, and interface connectors are identical to those of the ODU3. The ODU replacement will extend the operational service life of the antenna system through 2020.

The total estimated value of this contract is [REDACTED], which will be funded with [REDACTED].

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 AVL 1278KFD antenna system was originally fielded and integrated into the UCS fleet in 2007 with the Globecom ODU3, which contained an iDirect 7000 (Infinity) Series satellite modem. The ODU3 has been in continuous use since the initial fielding of the AVL 1278KFD antenna system. However, the iDirect 7000 (Infinity) Series satellite modem that is housed in the ODU3 is now obsolete and has reached the end of its useful life. Production of the modem stopped in 2012, and software updates will no longer be available after September 2014, which impacts ability to maintain network accreditation certifications for the UCS. As the ODU3 satellite modem will no longer be supported by iDirect, the ODU5, which includes the iDirect E800 modem to replace the obsolete iDirect 7000 series modem, must be procured by September 2014 to ensure continued support of the UCS antenna system.

In accordance with the Capability Production Document, dated 17 August 2006, the Joint Requirements Oversight Council approved the WMD- CST UCS and validated the requirements, resulting in the UCS platform being established as a Program Of Record.

The Globecom ODU5 is the only known source capable of providing an ODU that meets the UCS's specific capability, environmental, and form/fit requirements without further modifications to be made to the ODU, Ku-Band Antenna system, or the UCS. The unit's size, weight, and ventilation requirements are specific to the UCS vehicle mounting provisions and the specific interface connectors are positioned to properly mate with the UCS vehicle integral cable harness already in the field. The ODU3 is currently in use throughout the fielded UCS C4 vehicles. The replacement ODU must be interoperable with the existing Ku-Band antenna system and with the Ku infrastructure integrated into each fielded UCS in order to reduce the cost of re-engineering and re-integration. Additionally, it must maintain configuration management and accreditation to maintain approved certifications for operation of the existing UCS fleet. The required Globecom ODU5 is a direct replacement of the currently fielded ODU3 and is part of the overall approved UCS system; therefore it would require no additional certifications or testing to be installed in the UCS for immediate operation.

In addition, if another manufacturer's ODU were to be selected, it would need to undergo testing and certification before it could be approved for integration into the UCS for mission operations. This would result in significant duplication of cost (estimated at \$3.3M) and a program delay of up to thirty-three (33) months to test, certify, train and integrate the change in ODU across the existing fleet of sixty-six (66) UCSs. The duplication of cost is not anticipated to be recouped through competition.

Failure to procure the required Globecom ODU5 would halt existing UCS integration plans and jeopardize the communications capability for all fielded UCS systems. As a result of the manufacturer's end of life notification for the ODU3 and discontinuation of its software support, the existing UCS systems would be left vulnerable to potential hostile network attacks without required software updates, leaving the United States at risk of not being able to send and receive C4 during a response to a CBRNE event.

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

For the reasons discussed in paragraph 5 above, Globecom is the only known source capable of providing an ODU that meets the UCS's specific capability, environmental, and form/fit requirements without further modifications to the ODU, Ku-Band Antenna system, or the UCS.

Market research was conducted within the Satellite Communications Antenna industry to identify potential sources to supply the Outdoor Enclosure Units for Ku-Band satellite 1.2m vehicle mountable antenna systems in the United States. Several manufacturers of Outdoor Enclosure Units were identified: Globecom, GATR Technologies, and Cobham.

GATR Technologies and Cobham were identified as other manufacturers with outdoor units for use with fly and drive antenna systems. However, both manufacturers' systems would require modification of their system prior to integration into a UCS; as well as testing and recertification of the ODU within the UCS before it could be approved for mission operations.

Additionally, a search by description ("Outdoor Enclosure Unit for Fly and Drive Antennas"), "ODU5", and "part number 01-000643-002" was conducted on Yahoo.com and Google.com. Globecom is the Original Equipment Manufacturer of the currently fielded ODU3, and was contacted to identify any authorized resellers of the ODU5. All inquiries revealed that Globecom is the only manufacturer/distributor of its ODU units.

In accordance with FAR 5.201, this procurement was synopsisized on the FedBizOpps webpage on 16 July 2014 and closed on 30 July 2014. No challenges to the synopsis were received.

7. Determination of Fair and Reasonable Cost.

In Accordance with FAR 15.4, 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 other than cost or pricing data and sufficient information to support the accuracy and reliability of the estimate. The proposal will be reviewed by experienced technical personnel at SCR and the contract specialist. The Contracting Officer will utilize price analysis in accordance with FAR 15.404-1, including a review of historical data, as the basis for negotiating a fair and reasonable price.

8. Actions to Remove Barriers to Future Competition.

NAWCAD has no plan at this time to compete future contracts for the required equipment described in this document. This requirement is for the upgrade of the entire UCS Fleet ODU units from an ODU3 to an ODU5 due to obsolescence and supportability of the existing units. This action will extend the serviceability of the UCS Antenna Systems through 2020. No future procurements are known at this time.