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IN REPLY REFER TO:
J&A_12_22694

**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 a sole source basis the award of a Firm Fixed Price contract for 1,200 square feet (300 pieces) of C-RAM SFC-HC-24, 24"x24"x24" high power microwave Honeycomb RF Absorber from Cuming Microwave, Inc., 264 Bodwell Street, Avon, MA 02322. This high-power absorber is to upgrade the existing Naval Air Warfare Center Weapons Division (NAWCWPNS) anechoic measurement facilities to work with the high energy levels output by upcoming electronic attack systems, such as the Next Generation Jammer. This upgraded measurement facility will support the Airborne Electronic Attack (AEA)/EA-6B Integrated Product Team (IPT) at NAWCWPNS Point Mugu, CA.

3. Description of Supplies/Services.

The proposed contract is for the purchase of high-power capable anechoic microwave absorber material. This material is utilized within microwave development and measurement facilities to minimize wave reflections and provide clear measurement of emitted signal for development, testing, and evaluation of microwave transmitting and receiving systems. This specific anechoic microwave absorber material is required for the purpose of developing and maintaining an identical laboratory, which identically replicates the aircraft for the purpose of development and maintenance of Operational Flight Programs. The AEA laboratories provide direct fleet support through design and development of updates avionics/weapons systems supporting the EA-6B and future electronic attack platforms, including the transition to the EA-6B follow-on aircraft, the EA-18G. In order to provide this type of laboratory environment, all types of scenarios are required, including reflecting radiation to degrees that elicit extreme temperatures. The estimated value of this acquisition is \$600,000. This acquisition will be funded with FY12 (b)(2)High

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.

Cuming Microwave, Inc. is the only known source to provide the high power microwave absorber that can withstand the radiation power levels expected within the High-Power Electronic Attack Radiation (HEATR) laboratory that will provide for direct-radiation capture of high-power jamming systems, such as the ALQ-99, which is approximately six watts per square inch without expensive cooling systems. Because of the high-power radiation emitted by such systems, a specialized RF absorber is required within the chamber that can withstand elevated power levels without igniting.

The manufacturer, Cuming Microwave, Inc, is the sole developer of the commercial-off-the-shelf (COTS) C-RAM SFC-HC high power pyramidal absorbers hardware and owns all the proprietary and data rights.

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

A synopsis was issued on 03 July 2012 in the Federal Business Opportunities and no responses were received. Any future responses will be evaluated by the Contracting Officer. The Government has conducted market research by participating in trade shows, contacted subject matter experts in this field, and has performed web-based searches for this type of absorber. The only contractor found to be capable of supplying the requirement is Cuming Microwave, Inc. On-going market research is being conducted through the methods listed above. Based on the market research, the Government has confirmed that Cuming Microwave, Inc. has proprietary and data rights for their C-RAM SFC-HC high power pyramidal absorbers hardware and are the only manufacture and source that sells this particular absorber. At this time, the Government has not been able to identify any additional sources with these capabilities. As a result of this market research, the Government has determined that a competitive environment does not exist and that Cuming Microwave, Inc. is the only source that can provide the required high power microwave absorber.

7. Determination of Fair and Reasonable Cost.

In accordance with FAR 15.402, the Contracting Officer will ensure that all supplies and services provided under this contract are procured at a fair and reasonable price. The contracting officer will utilize cost and price analysis as the basis for negotiating a fair and reasonable price.

8. Actions to Remove Barriers to Future Competition.

If a follow-on procurement is required, further market research will be conducted to determine if any other vendors can provide C-RAM SFC-HC high power pyramidal absorbers hardware. Competitors would be identified and investigated to determine the capability of their products and whether those products meet the requirements of the Government.

Appendix A

Estimated Dollar Value In Thousands

	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Total
(b)(2)High	600	0	0	0	0	0	0	600
Total	600	0	0	0	0	0	0	\$ 600 k