

## JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

Upon the basis of the following justification, I as Contracting Officer hereby approve use of the other than Full and Open competition for the proposed contractual action pursuant to the authority of 10 USC 2304(c)(1), only one responsible source and no other supplier or servicing activity will satisfy agency requirements, as implemented by FAR 6.302-1.

### **1. Contracting Activity**

Naval Postgraduate School  
Department of Contracting and Logistics  
1 University Circle  
Monterey, CA 93943

### **2. Description of the Action Being Approved**

This justification covers the procurement of AML Oceanographic Smart X environmental sensor systems from AML Oceanographic. This justification for other than full and open competition will be posted at the Government wide Point of Entry.

### **3. Description of Supplies/Services**

This purchase is for the acquisition of advanced oceanographic environmental sensors designed for operation on underwater, autonomous gliders. These sensors are necessary to collect oceanographic data and conduct technology demonstrations for our sponsoring agency, the Office of Naval Research. NPS has several Littoral Glider UUVs, which are designed to incorporate such sensors in its payload for real-time monitoring of environmental parameters, such as temperature, pressure, and sound speed.

The Littoral Glider UUV hardware and embedded software were designed to accommodate the AML Oceanographic environmental sensors. This includes the sensor form factor, the power requirements, the physical wet-end to dry-end interface, and the data stream and recording format. There are no other sensors that conform to all of these existing requirements without a major re-design of the existing systems.



### **4. Statutory Authority Permitting Sole Source**

FAR 6.302 -- Circumstances Permitting Other Than Full and Open Competition.

- 6.302-1 -- Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements.

**5. Rational Justifying Use of Cited Statutory Authority** The assumptions were made that the acquired sensors would need to fit a particular form factor for the platform on which they will be installed, and that the power consumption and data streaming would be compatible with the existing platform architecture. A search of potential sensors was conducted through vendor websites, and an evaluation of sensor performance, reliability, and modularity of sensor design was considered. Communication with other researchers who have

experience with sensors of this type also provided useful information. At this time, there are no other vendors with sensors that meet the combination of requirements for integration into the existing platforms.

**6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable** Other vendors surveyed include Ocean Sensors, Inc (their sensors are only designed for hand deployment and do not fit the required form factor or data streaming requirements), and Aanderaa Data Instruments (their sensors do not integrate into a single form factor and cannot be adapted for use on the glider platform). Cost estimates for sensor redesign to fit the required form factor were discussed with vendors, but this required significant NRE (non-recurring engineering) costs.

**7. Determination of Fair and Reasonable Cost**

Costs will be determined fair and reasonable at time of award by the Contracting Officer and based on previous contracts and similar contracting efforts.

**8. Market Research** Only AML Oceanographic produces environmental sensors that meet all system requirements. Other vendors surveyed include Ocean Sensors, Inc (their sensors are only designed for hand deployment and do not fit the required form factor or data streaming requirements), and Aanderaa Data Instruments (their sensors do not integrate into a single form factor and cannot be adapted for use on the glider platform).

**9. Other Facts Supporting Use of Other Than Full and Open Competition** There are no other sensors that conform to all of these existing requirements without a major re-design of the existing systems.

**10. Actions to Remove Barriers to Future Competition** These are unique systems, serving a small market of scientific researchers. If other vendors begin manufacturing similar products, then they could be considered. But there are no actions that can be taken by the US Navy to remove these barriers.

**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 and Requirement Cognizance:**

[Redacted Signature] [Redacted Name (Printed)] [Redacted Phone No.] [Redacted Date]

**CONTRACTING OFFICER CERTIFICATION**

To the extent that the LSJ value is between \$2,500 and \$150K for services and between \$3K and \$150K for products, the Contracting Officer's signature below also represents approval of the J&A/LSJ.

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

[Redacted Signature] [Redacted Name (Printed)] [Redacted Phone No.] [Redacted Date]