DEPARTMENT OF THE NAVY
CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
300 HIGHWAY 361
CRANE INDIANA 47522-5001

IN REPLY REFER TO:

J&A Number: 11-001
Code: WXTM
N00164-11-R-WT86

JUSTIFICATION AND APPROVAL (J&A)
FOR USE OF OTHER THAN FULL AND OPEN COMPETITION

1. Contracting Activity.

Naval Surface Warfare Center, Crane Division

2. Description of the Action Being Approved.

Award of a contract on a sole source basis for the procurement of a 60Hz Static Inverter, Avionic Instruments P/N 1-002-01012-2109, to Avionic Instruments, 1414 Randolph Ave. P. O. Box 498, Avenel, NJ 07001 (10933). This effort is in support of the [redacted] which is currently [redacted]

3. Description of Supplies/Services.

The required supplies covered under this J&A are for the procurement of 60Hz Static Inverters, P/N 1-002-01012-2109. The 60Hz Inverter is for emergency power distribution on board the [redacted] The Avionics 60Hz Inverter was used as a baseline for power distribution throughout the [redacted] The original procurement for the inverter was awarded through PaxRiver for PMA290 on NAVAIR contract N00019-04-G-1148/0001, [redacted]. Spares are required to replenish the [redacted] inventory due to the [redacted]. These assets must integrate with existing power distribution in terms of form, fit, function and compatibility.

This contract will be funded with appropriations from Operations & Maintenance-Navy (O&MN). .

Avionics Instruments [redacted] Support Funding Estimate
Estimated Dollar Value

	FY11	FY12	FY13	FY14	FY15	TOTAL
O&MN	[redacted]					$1,185,247.04

The Government's minimum needs have been verified by the technical and requirements

4. Statutory Authority Permitting Other Than Full and Open Competition.

10 U.S.C. 2304(c)(1), Only one responsible source.

5. Rationale Justifying Use of Cited Statutory Authority.

[redacted] derivative, CNO directed program. [redacted] provides real-time, quick-reaction capability to the fleet and operation commanders and conducts test and evaluation of developing sensors for the Maritime Patrol (MP) Family of Systems (FoS). Over the past thirty years, the [redacted] program developed a unique ability to rapidly introduce new war fighting systems to the fleet. Leveraging a small number of platforms, [redacted] satisfies a high demand signal for Quick Reaction Change (QRC) capability that is very difficult to imbed and scale across multiple platforms and fleets of dozens of platforms.
Based on fleet readiness and availability of mission essential avionics equipment, the delay induced by a competitive purchase would negatively impact the ability of the [redacted] aircraft to perform their current and future missions with maximum effectiveness. It is imperative this equipment be procured so the aircraft can be Fully Mission Capable (FMC) in order to perform their assigned missions.

Lockheed Martin Corporation designed and produced the basic [redacted] aircraft. Unique Special Missions Equipment (SME) avionics components were commercially procured from various Original Equipment Manufacturer (OEM) entities, including Avionics Instruments.

The emergency power distribution on board the [redacted] aircraft was scheduled as a FY-11 effort to purchase additional spares due to [redacted]. Due to the power distribution sustainment effort, the procurement of these spares will be used for an aircraft currently under modification. The Avionic Instrument P/N 1-002-01012-2109 has been approved, authorized and accredited for utilization on the [redacted] aircraft.

The [redacted] aircraft are sought after for the most difficult of missions [redacted] due to its capabilities. Operational Commanders plan their strategies around the availability of this aircraft. The loss of utilizing this aircraft would have an immediate and direct impact on the fight against the [redacted] and would jeopardize the lives of the warfighter.

Avionics Instruments is unwilling to sell the data rights to the government and is the only source that possesses the technical data and approved flight clearance to manufacture the specific system for the Special Missions platforms. If another vendor were to perform the tasks identified in the J&A, the cost to re-tool, reverse engineer, generate Acceptance Test Procedures, perform first article testing, acquire flight certification and perform electrical load analysis would cost approximately $602,000.00 in additional costs and 24 months to deliver. The estimated cost that would be duplicated amounts to more than 50% of the total estimated cost of the five year contract. It is not reasonable to expect that amount could be recovered through competition, even if the Government could afford a 24 month delay in delivery. Cost Breakdown is as follows:

Description	Cost
Re-tool of Line	$64,000.00
Reverse Engineer and Test Procedures	$145,000.00
First Article of Test	$98,000.00
Tempest Certification	$210,000.00
Electrical Load Analysis	$65,000.00
Stress Analysis	$14,000.00
Publications/Duplicative Cost	$ 6,000.00
Total:	$602,000.00

The Government estimates it would require 18 months to perform reverse engineering and up to six months for certification of this equipment to have it ready for install. In five (5) years this SME equipment will be obsolete, therefore, efforts to procure parts and support for these assemblies from any other source would be expending time, effort and dollars for no appreciable benefit or gain to the government.

The [redacted] assets are currently deployed in direct support of the [redacted]. These assets are called upon to provide an agile, quick reaction capability in support of an annual operational requirement of [redacted] hours with a surge flexibility of [redacted].
The time and costs associated with the development of alternate sources for [redacted] SME component support would negatively impact current and future [redacted] mission requirements.

6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable.
The proposed contract was synopsized on the FEDBIZOPS website on 18 OCT 2010. No additional market research was conducted because it is not practicable for the reasons discussed in Paragraph 5 above, for any company other than Avionic Instruments to provide the required supplies. Although there are other manufacturers capable of manufacturing a 60HZ Static Inverter, Avionic Instruments unit is specifically approved, authorized and accredited for use on the [redacted] platform.

7. Determination of Fair and Reasonable Cost.

The Contracting Officer will determine the anticipated costs to the Government covered by this J&A as fair and reasonable.

8. Actions to Remove Barriers to Future Competition.

For the reasons set forth in Paragraph 5, NSWC Crane has no plans at this time to compete future contracts for the types of supplies covered by this document. If another potential source emerges, NSWC Crane will assess whether competition for future requirements is feasible. The synopsis will include a statement that other sources may submit an offer.

J&A Number: 11-001

TECHNICAL/REQUIREMENTS CERTIFICATION

I certify that the facts and representations under my cognizance which are included in this Justification are complete and accurate to the best of my knowledge and belief.

Technical Cognizance:

[redacted]

Signature Name (Printed) Phone No. Date

Requirements Cognizance:

[redacted]

Signature Name (Printed) Phone No. Date

LEGAL SUFFICIENCY REVIEW

I have determined this Justification is legally sufficient.

[redacted]

Signature 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]

Signature Name (Printed) Phone No. Date

APPROVAL BLOCK (FAR 6.304 FOR Approving Official)

Upon the basis of the above justification, I hereby approve, as Competition Advocate for the Contracting Activity, the solicitation of the proposed procurement(s) using of other than full and open competition, pursuant to the authority of 10 U.S.C. 2304(1)(1).

[redacted] Reggie W. Jos/in 11/3/10

Signature Name (Printed) Date