



**DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION**

J&A Number: 3353-11-050-00

NAVAL SHIP SYSTEMS
ENGINEERING STATION

5001 S. BROAD ST.
PHILADELPHIA, PA 19112-1403

REFER REPLY TO:

J&A Number: 3353-11-050-00

Code: 3353/KCH

CMTS No.: 11-KCH-081

**JUSTIFICATION AND APPROVAL
FOR USE OF OTHER THAN FULL AND OPEN COMPETITION**

JUSTIFICATION

1. Contracting Activity

Naval Sea Systems Command, Naval Surface Warfare Center, Carderock Division [REDACTED], Philadelphia, PA.

2. Description of Action Being Approved

This is a sole source action to be awarded without providing for full and open competition. The proposed contract action is a new contract to be awarded to Physical Sciences, Inc., 20 New England Business Center, Andover, MA 01810-1077. The proposed contract will be a Firm-Fixed-Price for the purchase of In-Line Sampling Sensors (herein referred to as Autograpes) and Cost-Plus-Fixed-Fee for all contractor services.

3. Description of Supplies/Services

The proposed acquisition will require the contractor to provide Autograpes and/or contractor services for use in the [REDACTED]. The Autogrape, designed and manufactured by Physical Sciences, Inc., incorporates the newest state of the art technology that displays real-time sediment and free water levels within aviation fuel. It performs these tasks autonomously and in real-time, eliminating the need for the large number of supporting personnel currently associated with manual fuel surveillance and quality assurance. The Autogrape will replace the Combined Contaminated Fuel Detector (CCFD), a technology currently used in the fleet to quantify sediment and free water, developed in the 1950's. The average turn-around time for results obtained by the CCFD is 30 minutes and is exceedingly labor intensive to take, deliver and analyze the fuel samples. The estimated dollar value of the acquisition is \$176,250 and comprises the following supplies and services:

	Qty	Unit	Cost
Autogrape 2 inch (ea)	1	Each	[REDACTED]
Autogrape 4 inch (ea)	1	Each	[REDACTED]
Autogrape 8 inch (ea)	1	Each	[REDACTED]
Contractor Services	150	Hours	[REDACTED]

Funding is available from any of the following types of funds: OM&N, RDT&E, SCN, etc. The period of performance for this contract is from the date of award to 12 months thereafter.

The Government's minimum needs have been verified by the certifying technical requirements personnel. This acquisition is to satisfy the requirements of the Naval Surface Warfare Center Carderock Division requirements. This justification does not authorize acquisitions for other requirements.

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" (FAR 6.302-1).

5. Rationale Justifying Use of Cited Statutory Authority

Physical Sciences, Inc. (PSI) was competitively selected for an SBIR Phase I contract (N68355-99-C-0171) under SBIR Topic Number N99-053, In Line Fuel Sampling. PSI was subsequently awarded a SBIR Phase II contract (N68355-00-C-0384). The objective of these contracts was to develop a sensor capable of quantifying sediment and free water in aviation fuel in real-time. The Autogrape has demonstrated to be promising technology through laboratory testing and field testing aboard the [REDACTED]. The Autogrape is proprietary and PSI is the only company that possesses the rights, knowledge and expertise to manufacture the sensor. The Autogrape successfully passed First Article Testing via contract number N65540-07-C-0004 and is being integrated into all future aircraft carrier aviation fuel systems.

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

This action is a continuation of an SBIR initiative and is exempt from synopsis per FAR 5.202(a) (7).

7. Determination of Fair and Reasonable Costs

The Contracting Officer has determined that the anticipated cost to the Government for supplies/services covered by the J&A will be fair and reasonable.

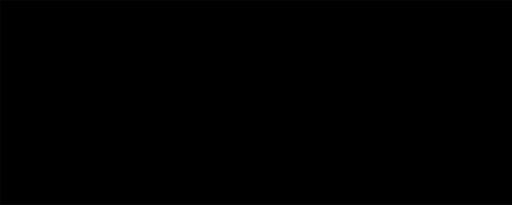
8. Actions to Remove Barriers to Competition

A market survey was not conducted due to the fact that this procurement is a result of a Phase I and II contract under the SBIR program. There is no requirement to establish further competition for the reasons stated in paragraph 5 above.

TECHNICAL AND REQUIREMENTS CERTIFICATION – FAR 6.303-2(b)

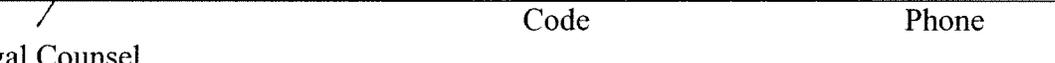
I certify that the facts and representations under my cognizance, that are included in this justification and its supporting data, except as noted herein, are complete and accurate to the best of my knowledge and belief.

COMBINED TECHNICAL AND REQUIREMENTS COGNIZANCE:

			4/28/11
	Code	Phone	Date

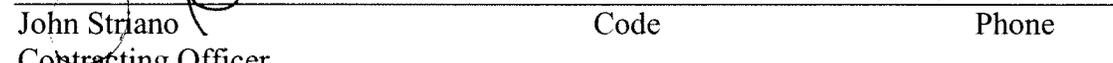
LEGAL SUFFICIENCY REVIEW (NMCARS 5206.303(90)):

I have determined that this justification is legally sufficient.

			4/28
	Code	Phone	Date
Legal Counsel			

CONTRACTING OFFICER CERTIFICATION – FAR 6.303-2(a)(12):

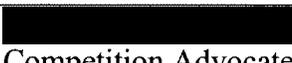
I certify that this justification is accurate and complete to the best of my belief.

			4/28/2011
	Code	Phone	Date
John Striano Contracting Officer			

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 other than full and open competition, pursuant to the authority of 10 U.S.C. 2304(c)(1).

TITLE OF APPROVING OFFICIAL

			Date
Competition Advocate	Code	Phone	