JUSTIFICATION FOR SOLE SOURCE (SAP <$150k)
Ref: FAR 13.106 and NAVSUP 4200.85D Chapter 5 Para. 2.b.(5)

The service or material listed on (Document number) 3142-V752 is sole source and competition must be restricted to one source, or to only one brand name for reasons indicated below. There are no substitutes available for this material.

Restricted to the following source or brand name. Provide ***original manufacturer's*** name. (If a sole source manufacturer distributes via dealers, ***ALSO*** provide dealer information.)

Manufacturer: Canberra Industries
Manufacturer POC & Phone Nr. Andy McLain/Kevin OBrien 1-800-243-3955
Mfr. Address 800 Research Parkway, CT 06450
Manufacturers Dealer/Rep N/A
Dealer/Rep Address/Phone Number N/A

____Description of the item or service required, the estimated cost, and required delivery date.
Perform a Level IV reconfiguration of a High Purity Germanium (HPGE) Detector (S/N 5997083) to a CP5 configuration with ISOCS/LabSOCS characterization and characterization check source. The estimated cost is [redacted] (b)(5) and the delivery date would be approximately 1/16/14.

____Specific characteristics of the material or service that limit the availability to a sole source or particular brand name (unique features, function of the item, etc.). Describe in detail **why** only this suggested source can furnish the requirements to the exclusion of other sources.

The OEM for the HPGE detector and the ISOCS/LabSOCS characterization and software is Canberra Industries. The ISOCS/LabSOCS characterization is a service performed on the HPGE detector, is proprietary, and is required in order to use the LabSOCS software which is an overlay of Canberra Industries' Genie 2000 which is the only gamma spectroscopy software approved in DADMS. The LabSOCS software is used for performing calibrations of various sample geometries without requiring a source. It is currently used on several counting systems with detectors that have been characterized. Since the ISOCS/LabSOCS characterization is proprietary, Canberra Industries is the only manufacturer that can perform it. This detector cannot count samples in containers that we do not have a source for including 250 ml and 1 liter bottles if no characterization exists thereby limiting its current use. This detector is used at Naval Air Station North Island in San Diego for a gamma spectroscopy system that counts samples for radioactivity.

____The requested material or service represents the minimum requirements of the government

CHECK & FILL IN ALL APPLICABLE BLANKS BELOW

_X_The material/service must be compatible in all aspects (form, fit and function) with existing systems presently installed. Justi Describe the equipment you have **now** and **how** the new item/service must coordinate, connect, or interface with the existing system.
The HPGE detector (S/N 5997083) is in the gamma spectroscopy system that counts samples for radioactivity located at Puget Sound Naval Shipyard. The HPGE detector is being reconfigured to a CP5 configuration because it is being moved to a location where liquid nitrogen cannot be easily delivered and the CP5 provides electrical cooling. The ISOCS/LabSOCS characterization on the detector is required to work with the spectroscopy system because it is necessary to have the ability to count samples in geometries which do not have calibration sources (e.g. 250 ml and 1 liter bottles). Since the shipyard does not have calibration sources in these other geometries, only the ISOCS/LabSOCS characterization from Canberra will allow the shipyard to perform an efficiency calibration where a source does not exist (in order to count samples in other geometries) using the existing LabSOCS and Genie 2000 software which are the only DADMS approved gamma spectroscopy software.

_X_A patent, copyright, or proprietary data limits competition. The proprietary data is: The proprietary data is the ISOCS/LabSOCS characterization which can only be performed by Canberra Industries and is required for using LabSOCS.

_X_ The Service level IV provides "direct replacements" parts/components for the Canberra HPGE detector to be repaired/reconfigured (Canberra is OEM for detector).

X Other information to support a sole-source buy: Canberra Industries is the OEM for both the detector and ISOCS/LabSOCS characterization.

I CERTIFY THAT STATEMENTS CHECKED, AND INFORMATION PROVIDED ABOVE, ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND DO NOT CONTAIN CLASSIFIED INFORMATION. I UNDERSTAND THAT THE PROCESSING OF THIS SOLE-SOURCE JUSTIFICATION PRECLUDES THE USE OF FULL AND OPEN COMPETITION.

Signature (b) (6) [redacted] Activity Code 105.52

Title Health Physicist Date 2/5/13

Contracting Officer Signature (b) (6) [redacted] Date 5/23/13

FISCPS 4200/180 (Rev. 10/1/10)