



DEPARTMENT OF THE NAVY
NAVAL RESEARCH LABORATORY
4555 OVERLOOK AVE SW
WASHINGTON DC 20375-5320

IN REPLY REFER TO

JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

1. The Department of the Navy, contracting through the Naval Research Laboratory, proposes to enter into a contract with AMETEK Ortec on other than a full and open competitive basis.

2. Nature and/or description of the action being approved.

The Naval Research Lab is developing a prototype stand-off radiation detection system for the Domestic Nuclear Detection Office (DNDO) in the Department of Homeland Security (DHS). The NRL system, MISTI, consists of a mobile platform transporting state-of-the-art gamma ray detectors and imaging systems and includes navigation and communications capabilities. The array of detectors includes 28 high-purity germanium detectors.

3. Description of the supplies or services required to meet the needs of Naval Research Laboratory including the estimated value.

The Naval Research Laboratory has a requirement for three (3) additional individually packaged germanium detectors for the MISTI system. These detectors must be able to be interchanged into a liquid nitrogen cryostat by the user. These detectors must be ruggedized for field use. These detectors must have:

- a relative efficiency of ~100% (relative to a 3x3 inch NaI detector).
- an energy resolution of < 1.3 keV at 122 keV.
- an energy resolution of < 2.2 keV at 1.33 MeV.
- be mounted in a "Poptop" capsule

3.1. A statement of delivery requirements

All detectors shall be delivered within 6 months of receipt of order.

3.2. The total estimated dollar value (including all options) for the acquisition(s) covered by the justification.

The total estimated dollar value is \$205,770, to be awarded in FY09.

4. Identification of the statutory authority permitting other than full and open competition.

10 USC 2304 (c) (1) Only one source

5. Demonstration that proposed contractor's unique qualifications or nature of the acquisition requires use of the authority cited.

AMETEK Ortec is uniquely qualified because its detectors were initially selected for the MISTI project which subsequently was designed and fabricated to support the mechanical and thermal interface of its detectors. The MISTI project cannot support two different mechanical interfaces to the detectors. Since the existing detectors have the unique interface of one vendor, the remaining detectors must come from the same vendor so they can be interchangeable with the existing detectors. The estimated cost increase to the government of selecting and implementing another detector interface is approximately \$280,000.

6. A description of efforts made to ensure offers are solicited from as many potential sources as is practicable including whether a GPE notice was or will be publicized.

The requirement was transmitted to the GPE on 20 March 2009. Interested parties were given an opportunity to submit capability statements or proposals.

As of the date of the Contracting Officer's signature, no responses to the CBD notice have been received.

7. Determination by the Contracting Officer that the anticipated cost to the Government will be fair and reasonable.

The Contracting Officer will perform a price analysis in accordance with FAR 15.404-1(b) (and a cost analysis, if required) to determine whether the price is fair and reasonable.

8. Description of the market research conducted and results or statement of the reasons a market research was not conducted.

Previous market research identified three vendors of germanium detectors in the USA: AMETEK Ortec, Canberra Industries, and PhDs. However only AMETEK Ortec has the mechanical interfaces identical to the existing detectors.

The COR/ARO is fully cognizant of the equipment/expertise in this scientific field and to the best of his knowledge, there is no other source available.

9. Any other facts supporting the use of other than full and open competition:

The MISTI project uses existing germanium detectors manufactured by the proposed contractor. The MISTI project cannot have two different mechanical interfaces to the detectors. Since the existing detectors have the unique interface of one vendor, the remaining detectors must come from the same vendor. The estimated savings by purchasing detectors with identical interface to existing detectors is approximately \$280,000.

10. A listing of the sources, if any, that expressed, in writing an interest in the acquisition.

Both AMETEK Ortec and Canberra Industries expressed interest in the initial acquisition of detectors for the MISTI Project. No sources have expressed an interest in the instant acquisition

11. A statement of the actions, if any, the agency may take to remove or overcome any barriers to competition before any subsequent acquisition for the supplies or services required.

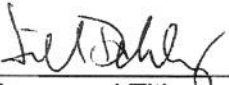
The requirement for compatibility with existing detectors applies only to the MISTI prototype detection system being developed by NRL for DNDO. Potential multiple replication of the MISTI prototype in a possible subsequent, but independent, procurement by DNDO would not be bound by this requirement. All vendors would then be capable of proposing their own detector designs and interfaces.

12. Certification and Approval signatures.

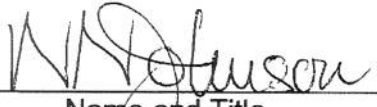
TECHNICAL AND REQUIREMENTS CERTIFICATION
REQUIRED BY FAR 6.303-2(b)

I certify that the facts and representations under my cognizance which are included in this justification which form a basis for this justification are complete and accurate.

Technical Cognizance

(Signature)  7600 3/23/09
Name and Title Code Date
J. Dahlburg, Superintendent

Requirements Cognizance

(Signature)  7650 3/20/09
Name and Title Code Date
W N Johnson, Supv Astrophysicist

CONTRACTING OFFICER CERTIFICATION REQUIRED BY FAR 6.303-2(a)(12)

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

(Signature)  3230 4-24-09
Name and Title Code Date

DANIEL F BRINKWORTH
Contracting Officer