



**DEFENSE LOGISTICS AGENCY**

DLA Mechanicsburg  
5450 CARLISLE PIKE  
MECHANICSBURG, PA 17055-0788

IN REPLY REFER TO:

**JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION**

**REQUISITION NUMBER/PD:** N0010410X5931

**FOLDER NUMBER:** 10092-0075

[Redacted]  
(Item Manager's Name) *Please Print*

[Redacted]  
(Extension)

[Redacted]  
(Code)

[Redacted]  
(Technician's Name) *Please Print*

[Redacted]  
(Extension)

[Redacted]  
(Code)

[Redacted]  
(Buyer's Name) *Please Print*

[Redacted]  
(Extension)

[Redacted]  
(Code)

**1. IDENTIFICATION OF AGENCY AND/OR CONTRACTING ACTIVITY:**  
DLA Mechanicsburg.

**2. NATURE/DESCRIPTION OF ACTION:** This J&A is for the negotiation and award of a contract through other than full and open competition.

**3. DESCRIPTION OF SUPPLIES/SERVICES:** This J&A cover the acquisition of the following article(s):

Nomen	PLUG ASSY, TURBOCHARGER	Quantity	18
NSN	1H 3655-01-472-5187	Cage Code	02TL6
P/N	274500_2	Unit Price	[Redacted]
Estimated Value (include option) \$ [Redacted]			
Appropriation, Subhead and Cost Code			
97 00 XX XX 4930 NC1A 000 81003 0 000104 7R 000000 8PP158300MGE			
Option: Yes _____ % _____ Days _____ No Option <input checked="" type="checkbox"/> _____			

**Item creates oxygen while pilot flies plane**

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**4. IDENTIFICATION OF STATUTORY AUTHORITY:** This J&A is based upon the authority of 10 USC 2304(c)(1), as implemented by Federal Acquisition Regulation 6.302-1.

**5. DEMONSTRATION OF CONTRACTOR'S UNIQUE QUALIFICATIONS:** The current Acquisition Method Code (AMC/AMCS) is 3H. This acquisition will be negotiated with: (02TL6) R&D DYNAMICS CORPORATION

Only the above manufacturing source(s) will be solicited because the articles to be acquired are highly specialized parts, and the only source that meets the government's minimum needs are manufactured by a non-Government activity. The technical data required for the above acquisition is not available to the government.

**6. GOVERNMENTWIDE POINT OF ENTRY NOTICE/POTENTIAL SOURCES:** This justification, the solicitation, and the resulting contract will be posted on FedBizOpps.

**7. DETERMINATION OF FAIR AND REASONABLE COST:** The contracting officer determines that the anticipated cost to the Government will be fair and reasonable. In instances when certified cost and pricing data are required, an analysis of cost information will be performed which will consider field pricing reports, commerciality, procurement history and other available cost and pricing information in determining price reasonableness. When certified cost and pricing data is obtained, it will be used to ensure reasonableness, completeness and realism of proposed costs as required.

**8. DESCRIPTION OF MARKET SURVEY:** A technical review has been conducted, and based on this review, the contracting officer determines there are no other identifiable sources. Based on market research, the contracting officer has determined that the only known manufacturing source is R&D DYNAMICS CORP.

**9. ANY OTHER SUPPORTING FACTS:**

The P/N being procured is 274500\_2 which is a R&D Dynamics part. This turboexpander, which contains air foil bearing technology has been determined by the In Service Engineering Activity (NAVAIR Lakehurst) to be the most reliable. The turboexpander is required to operate at a rotational speed of 75,000 to 80,000 RPMs to generate sufficient refrigeration for the Navy's application. The turboexpander using this air foil bearing technology has been tested and found capable of withstanding RPMs of up to 100,000 and have demonstrated mean time between failure (MTBF) of 100,000 hours. Previous turboexpander, P/N 791220-004, which has been procured on numerous occasions, contains oil lubricated roller bearing technology. This technology is over twenty years old. These turboexpanders operating at the required 75,000 to 80,000 RPMs are experiencing alarmingly high failure rates with less than 10 operational hours. All known failures have been found to involve the oil lubricated roller bearings. At an approximate cost of \$50,000/unit it is not economically feasible to continue buying these turboexpanders using the oil lubricated roller bearing technology to support Fleet requirements.

NAVAIR Lakehurst performed market research on the bearing technology and found that the R&D Dynamics turboexpander is the only unit available in the market place which provides both the required technology to support the engineering findings and also provides for the proper form, fit and function with the LOX /LIN (Liquid Oxygen/Liquid Nitrogen) generators, which is a critical requirement.

**10. LISTING OF INTERESTED SOURCES:** The following sources have expressed, in writing, an interest in this acquisition:

None

Spares C1 J&A  
Revised 8/09

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**11. ACTIONS TO REMOVE BARRIERS TO COMPETITION:**

The government will include a clause in this solicitation that provides that the government will consider alternate offers, and that alternate offerors should submit a source approval request (SAR) package that will be referred to the cognizant engineering activity. If, due to mission requirements, the current procurement cannot be delayed in order to allow sufficient time for the engineering activity to determine whether to approve an alternate offer, the SAR package will be considered for future awards. This item has been reviewed under the NAVICP limited screen process and determined that the item cannot be broken out. No additional actions to remove barriers to competition is required under this process.

**12. STATEMENT OF DELIVERY REQUIREMENTS:**

- (a) The required delivery date (month/year) is: 05/2011  
(b) Ship To: SW3117
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**13. REFERENCE TO THE APPROVED ACQUISITION PLAN:** An Acquisition Plan is not required for this acquisition.

**14. DOCUMENTATION FOR SPARE/REPAIR PARTS ACQUISITIONS:** The specifications for the above articles have been reviewed and reflect the minimum needs of the Government.

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**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 and which form a basis for this justification are complete and accurate.

Technical Cognizance:

[Redacted Signature and Name/Title/Code/Phone/Date]

Requirements Cognizance:

[Redacted Signature and Name/Title/Code/Phone/Date]

**COMPETITION ADVOCATE REVIEW AND CONCURRENCE**

	Timothy D. Davis DIA Mech Contractor	Z13B	2989	5/11/10
(Signature)	(Name & Title)	(Code)	(Phone)	(Date)

Reviewed: 5-4-10 

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

I certify that this justification is accurate and complete to the best of my knowledge and belief. (Represents approval if less than \$550K.)

	J.A. Hartman Contracting Officer	Z13	2306	5/19/10
(Signature)	(Name & Title)	(Code)	(Phone)	(Date)

**REVIEWED FOR LEGAL SUFFICIENCY BY COUNSEL: (Over \$550K)**

[Redacted Signature and Name/Title/Code/Phone/Date]

(Signature) (Name & Title) (Code) (Phone) (Date)

spares C1 J&A

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**APPROVAL REQUIRED BY FAR 6.304**

APPROVAL: (Over \$550K)

	Timothy Dross DLA HQ Comp Adv	ZCSB	2989	06/15/00
(Signature)	(Name & Title)	(Code)	(Phone)	(Date)

Approval Levels:

- Contracting Officer: Up to \$550,000
- Competition Advocate: \$550,001 to \$11,500,000
- HCA: \$11,500,001 to \$78,500,000
- DLA HQ: over \$78,500,000