

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
JOHN F. KENNEDY SPACE CENTER**

**RECOMMENDATION AND DETERMINATION TO SOLICIT FROM ONE  
SOURCE**

I recommend that NASA, John F. Kennedy Space Center negotiate solely with Flightworks, Inc (FW) to extend spiral development of an existing USAF SBIR contract for development of an Nitrogen Tetroxide (NTO) rated pump to support the Restore program. FW would create minor engineering and gearing/material changes to the existing hydrazine magnetic drive (no dynamic softgood seals) pump in development under an existing USAF SBIR contract. [REDACTED] [REDACTED] for the engineering, material changes and shop build-up of prototype unit, and performance testing with referee fluid. The estimated lead-time for delivery is 3-4 months.

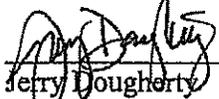
Pursuant to FAR 13.106-1(b) and 13.106-3(b)(3)(i), the acquisition of referenced supplies and or services are determined to be available from only one source. Competition is impractical for the following reasons:

1. Urgency – program need for this prototype unit exists to start hypergol testing within 3 months (FW is the only supplier contacted from multiple magnetic drive gear manufacturers, including chemical industry suppliers, that stated they would be interested to modify a unique gear design magnetic drive pump meeting Restore program requirements for flowrates, pressures, size and weight)
2. Continuation of previous government effort – this contract evolves USAF SBIR contract Agency Tracking Number: F081-061-0168, to create NTO pump from hydrazine based flight hardware model presently in development testing. This contract approach leverages existing progress to reduce time for development and reduces cost for initial prototype proof of concept unit delivery to KSC.
3. Pursuant to NFS 1805.207 and 1804.570, this proposed contract action will be published on the NASA Acquisition Internet Service (NAIS) and pursuant to FAR 5.201, this proposed contract action will be synopsisized in the Federal Business Opportunities. The results received in writing will be added to this document by addendum.

Contracting without full and open competition is permitted pursuant to 10 USC 2304 (c)(1) and/or other authority as appropriate, because the products required by KSC are available from only one responsible source and no other type of supplies or services will satisfy our requirements. Specifically, the capability required is unique to this company's capabilities and uniquely meets KSC's minimum needs e.g. requiring the authority cited.

The requirement is required to be synopsisized in NAIS/EPS.

Based upon the above, I hereby determine that the circumstances of the contract action deem only one source reasonably available for this acquisition. I certify that the supporting data presented in this justification are accurate and complete.

  
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Jerry Dougherty  
Technical Representative

11/15/11  
\_\_\_\_\_  
Date

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

  
\_\_\_\_\_  
Joyce McDowell  
Contracting Officer

11-15-11  
\_\_\_\_\_  
Date