

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
NASA SHARED SERVICES CENTER

RECOMMENDATION AND DETERMINATION TO SOLICIT FROM ONE SOURCE  
OR BRAND NAME

**PICK ONE**

**Sole Source:**

☐ I recommend that NASA, NASA Shared Services Center negotiate with Vendor Name only for Enter Supply or Service to be procured. The total estimated cost of this effort is Enter Dollar amount and the estimated period of performance or lead-time for delivery is Date.

**OR**

**Brand Name Justification:**

☒ I recommend that NASA, NASA Shared Services Center negotiate with only with vendors who can provide the subject band name from Sentek Instrument for 4 NovaPT™-E600 sensor and 1 Fasedyne-1000-4-custom Interrogator. The total estimated cost of this effort [REDACTED] and the estimated period of performance or lead-time for delivery is 14 weeks.

This recommendation is for the acquisition of supplies or services determined to be reasonably available from only one source/only one manufacture. Competition is impractical for the following reasons (please answer the questions below):

1. **What are the reasons for soliciting only the suggested source/suggested brand name?** Due to the unique nature of microwave radiation coupling with the use of an electrical sensor in a combustion engine the following electromagnetic interference(EMI) would corrupt the data and skew the results. Sapphire equipped fiber optic instrumentation is needed to conduct reliable measurements and ensure safety of instrumentation hardware as it is not affected by EMI.
2. **What is the impact to the government if another vendor/brand is used?** Impact to the government would be failure of the instrumentation to accurately and safely measure combustion chamber parameters wasting time and money on a project for proof of concept for greater study. This setup also reduces the total number of sensors needed and thereby reducing the number of channels in the interrogator.

**ADDITIONAL COMMENTS:** This is for a proof of concept for a novel ignition systems that may improve system performance that has been seen in other combustion engines.

[REDACTED]  
**Technical User Name**

6/3/2026  
**Date**

[REDACTED]  
**Title**  
[REDACTED]  
**Office**