Application for Determination of Sole Source Procurement

This form, with one or more categories completed, must accompany a purchase requisition for equipment, supplies or services exceeding $20,000. Select the category or categories appropriate for this procurement. Attach all documentation necessary to support the application. Procurements of $20,000 and greater shall be posted to the NM Tech Purchasing website for the mandatory thirty (30) day period per NMSA 13-1-126.1

Requesting Department: Physics  
Proposed Contractor: Aeris Technologies  
Product Description: Mobile trace gas sensor  
End User's Name: Ken Minschwaner  
Estimated Cost: $32,250.00  
Date: 11/14/2018

I am requesting a sole source procurement based on the following reasons:

☐ Compatibility of existing equipment or supplies; provide details in Explanation. Include manufacturer, model number and NMT PCN of existing equipment.

☐ Item specifically required for use in conjunction with grant or contract. Attach applicable grant or contract page and provide justification of why it is required for grant / contract and why other substitutes are not acceptable.

☐ Requirement is of a proprietary / copyright / licensing nature which is explained below.

☐ The requested product has unique design / performance specifications or quality requirements which are essential to my work, research protocol or teaching needs, and are not available in comparable products. Please discuss this uniqueness / performance below.

☐ NMT Staff has specialized training and / or extensive experience. Retraining would incur substantial cost in money / time as explained below.

☐ I have contacted other suppliers or service providers identified below and have considered their product, however, their products / services are not acceptable because they are lacking one or more technical capabilities as discussed below.

☐ The requested product is essential in maintaining / continuing experiments. Other investigators have used this product in similar research and for comparability of results, I require it.

☐ Contractor is the sole manufacturer and sole distributor and has unique features / characteristics not available from other sources (provide explanation and attach applicable documents).

☐ Product is a prototype; contractor offers a trade-in allowance; availability of service, parts or maintenance as discussed below.

Explanation: See attached sheet

By signing below, requestor certifies that the information provided is accurate to the best of their knowledge.

[Signature]
End User Signature (actual signature required)

[Signature]
Chief Procurement Officer (signature required)

[Signature]  11/15/2018
Printed Name  Date

For use by Purchasing:

Date application received in purchasing: ____________  NMT Web Posting date: ____________  Expiration date: ____________
Explanation for sole source procurement: Mobile Trace Gas Sensor

This piece of equipment will be the backbone of a fabricated instrument package for drone-based detection and tracking of natural gas plumes in the atmosphere. Currently, no commercial packages like this exist. The mobile trace gas sensor for this package must have the following characteristics:

1. Simultaneously measure both methane and ethane mixing ratios with a precision of 2 ppb/s (parts per billion per second) or better, over a range of mixing ratios from a minimum of 20 ppb up to 20,000 ppb.

2. Measurement response time less than or equal to 3 seconds.

3. Battery operated.

4. Total weight (with batteries) less than or equal to 3 kilograms.

5. Total size less than 0.5 cubic feet.

The MIRA Pico Trace Gas Sensor, from Aeris Technologies, is the only commercially available equipment that meets all of these measurement requirements.