

**JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION (JOFOC)**  
**(In accordance with Federal Acquisition Regulation (FAR) 6.3 – Other than Full and Open Competition)**

**1. This document is a justification for other than full and open competition prepared by National Aeronautics and Space Administration (NASA) Goddard Space Flight Center (GSFC):**

The procuring agency is the National Aeronautics and Space Administration (NASA) and the contracting activity is NASA's Goddard Space Flight Center (GSFC), Greenbelt, MD.

**2. The nature and/or description of the action being approved:**

This justification provides the rationale for using other than full and open competition to award a sole-source contract to Malin Space Science Systems (MSSS) for three quantities of a custom, visible wavelength camera as a follow on procurement to the Purchase Order NNG15PS07P.

**3. Description of the supplies or services required, including an estimated value:**

The items being procured are three (3), custom-built visible wavelength cameras. These cameras are considered Engineering Models (EM) of a custom-built, space flight capable, visible wavelength camera. These cameras will be used for the Satellite Servicing Capabilities Office's (SSCO) Restore program. Restore is a free-flying mission to be launched in 2018 conducted with a U.S. industry partner to initiate on-orbit satellite servicing to operational legacy Government and commercial satellites. The estimated value of this procurement is \$240,000 with a delivery schedule of 7 months.

**4. Statutory authority permitting other than full and open competition:**

The statutory authority permitting other than full and open completion is 10 U.S.C. 2304(c), as implemented by Federal Acquisition Regulation (FAR) 6.302-1, "Only one responsible source and no other supplies or services will satisfy agency requirements".

**5. A demonstration that the proposed contractor's unique qualifications or the nature of the acquisition requires use of the authority cited:**

The rationale supporting the use of 10 U.S.C. 2304(c) is that failure to award this procurement to MSSS would result in a severe disruption to the project's schedule resulting in a substantial cost impact to the Government.

MSSS's EM cameras are unique such that they contain a new-to-market five (5) mega-pixel focal plane array. Additionally, the cameras employ a custom-designed video and data interface that utilizes a dual channel data-strobed encoded Low Voltage, Differential Multi-point (LVDM) signaling. Finally, these EM cameras enable a user to vary the output data rate from the camera via command. This feature is unique such that it allows a user to vary the camera's data rate in response to bandwidth fluctuations in a non-impedance controlled transmission line.

Failure to award this contract to MSSS would result in the Government being required to pay a different vendor upwards of \$500K to \$1M for an unproven visible wavelength camera system that would then need to go through series of testing pushing the Restore schedule back by several months. This would result in substantial duplication of cost to the Government that is not expected to be recovered by procuring these cameras competitively.

**6. Description of the efforts made to ensure that offers are solicited from as many potential sources as practicable, including whether a notice was or will be publicized as required by Federal Acquisition Regulation (FAR) 5.2:**

A notice to the NASA Acquisition Internet Service (NAIS) and Federal Business Opportunities (FedBizOpps) was published on November 20, 2015, in accordance with FAR Subpart 5.2. This posting informed potential sources of NASA GSFC's intent to award this sole-source contract to Malin Space Science Systems, and provided potential sources with the opportunity to be considered based on their qualifications and capability statements due by December 7, 2015. The results of this synopsis are contained in Section 10 below.

**7. A determination by the contracting officer that the anticipated cost to the Government will be fair and reasonable:**

Malin Space Science Systems has submitted a quote that has been reviewed by the Government. The proposed costs have been determined to be to fair and reasonable after evaluation by the Contracting Officer's Representative and the Contracting Officer. This determination was made based on the costs of similar camera systems from competing vendors that was obtained via a Request For Information (RFI) released by NASA GSFC in May, 2014.

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

As part of general market research, NASA GSFC released Solicitation Number: NNG14FA94RFI entitled, "Visible and IR Camera Systems For LEO, GEO, and Interplanetary Spaceflight" in May 2014. This Request For Information (RFI) sought to identify the current state-of-the-art of spaceflight-capable visible wavelength cameras offered from the aerospace industry. NASA GSFC received input from twelve (12) different respondents to this particular solicitation.

Information from this RFI lead directly to the release of Solicitation Number NNG14532170Q, entitled "Space-Cable Visible Camera System" in December 2014. This Request For Procurement (RFP) provided specific requirements and a Statement of Work (SOW) to procure two (2) engineering model cameras and one (1) proto-flight camera. NASA GSFC received four (4) responses to this solicitation and Malin Space Science Systems was selected as the provider.

Through both this RFI and RFP, NASA GSFC obtained a plethora of technical data on spaceflight-capable visible wavelength camera systems along with their associated development costs and lead times. As this data was still relatively recent, NASA GSFC elected not to perform additional market research in support of this particular procurement.

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

None.

**10. Sources, if any, that expressed an interest, in writing, in the acquisition:**

As stated above in Section 6, in accordance with the requirements of FAR Subpart 5.2, a notice of NASA GSFC's intent to award this sole-source action was synopsisized on the NAIS and FedBizOpps websites. The synopsis notified all interested sources that this requirement will be issued on a sole-source basis and provided them an opportunity to submit their interest and capabilities to the Contracting Officer within 15 days of the synopsis publication.

No responses were received upon the expiration of the synopsis.

**11. The actions the Agency may take to remove or overcome any barriers to competition before any subsequent acquisition for the supplies or services required:**

The Agency will continue to examine the market in the future for alternative solutions or new sources before executing any subsequent acquisitions for the same requirements. Any future procurement for additional spaceflight versions of this camera design is expected to be a full and open procurement.

**JOFOC Signature Page for Additional Malin Engineering Model Cameras Contract**

TECHNICAL DIRECTORATE: I certify that the facts presented in this justification are accurate and complete.

Ken M. Fry  
Signature

12/07/2015  
Date

CONTRACTING OFFICER:  
(APPROVAL) I certify that this justification is accurate and complete to the best of my knowledge and belief.

Ashley N. McQueen  
Signature

12-7-15  
Date