

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

**GSFC JOFOC Template Last Updated: October, 2012**

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

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

This procurement is for replacement/upgrades to GSFC's Flight Dynamics CAVE facility. The CAVE is a immersive virtual reality installation (11'x11'x8') originally designed and installed by Christie Digital at GSFC in Greenbelt. The facility consists of four active stereo projectors acting in frame-locked with a head-tracker, stereoscopic glasses, and the GSFC developed content generation software/workstations. This procurement provides for the replacement of two failed projectors with upgraded models.

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

The new projectors must be configured to integrate seamlessly with the existing system and as a result, the procurement includes the following items and services:

- ▲ (2) Christie Mirage WU12K-M Active Stereo projectors
- ▲ Modifications to existing front and left wall projector stands, mounts, sliding rails and associated metalwork
- ▲ (2) ILS Lens Adapter
- ▲ 16x16 DVI video switch with all necessary cabling and hardware
- ▲ Final configuration and calibration for the two new projectors and two existing (Christie S+4K) projectors to maximize blending and image quality/brightness
- ▲ The estimated value of this procurement is \$150k

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

The Federal Acquisition Regulations (FAR) authority permitting other than full and open competition is 10 U.S.C. 2304 (c) (1), Only One Responsible Source.

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

Christie Digital is the manufacturer of the Mirage WU12K-M projectors and the original designers of the GSFC CAVE installation. The technical expertise and continuity of work make them uniquely qualified to perform this repair/upgrade. If a competitive vendor's equipment and software were installed, the CAVE would be transformed into a heterogeneous environment requiring two separate service contracts (which can run as much as \$25,000/year) and would expose the government to additional risks as the system attempts to interface with each other. No equivalent technical solution has been found and it is unlikely to exist in a form compatible with our current system design. A complete re-design of the CAVE, along with the invested cost of GSFC software development would run approximately \$1-million dollars.

**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:**

In accordance with Part 5.2 of the FAR, this procurement was synopsisized on NASA's Acquisition Internet Services (NAIS) Business Opportunities website to ensure that any other potential contractors have the opportunity to express their interest in proposing to meet the requirements. The synopsis was issued on May 30, 2013 and closed on June 13, 2013.

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

The proposed costs will be evaluated by the Contracting Officer's Technical Representative and the Contracting Officer to determine that the labor rates, hours, skill mix, other direct costs, indirect costs, and fee are fair and reasonable. Metrics based on the original system installation costs will be used.

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

There are only two known corporations in the US that manufacture active stereo projectors for large-screen displays: they are Christie Digital and BARCO Inc. In 2007, GSFC purchased the Christie projector for the CAVE. Now, it would be impractical and expensive to convert to a new system for this purchase because it would be incompatible with both our existing Christie hardware and our existing GSFC developed software.

**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:**

There was only one source that expressed interest in our evaluation synopsis: Avitecture.

**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:**

It is not expected that GSFC can overcome any barriers that prohibit competition of these projectors for the CAVE facility. Projectors are required in order to maintain system integrity and compatibility.

JOFOC Signature Page for Procurement NNG13LM49P-2

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



Signature

6/26/2013

Date

CONTRACTING OFFICER:  
(APPROVAL)

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



Signature

7/17/13

Date