

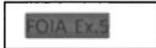
National Aeronautics and Space Administration
Ames Research Center
Moffett Field, CA 94035-0001

Limited Source Justification

Initiating Office: NASA Ames Research Center
NASA International Space Station (ISS) Utilization Program, Code D

Purchase Request No.: Individual PRs will be submitted for each task order

Procurement Title: NASA Ames Research Center (ARC) ISS Program Support and Services

Total Estimated Value: 

Period of Performance: Up to 27 months, consisting of a base and three option periods, as follows:

- 15 May 2012 through 15 February 2013 (9 months)
- 16 February 2013 through 15 June 2013 (4 months)
- 16 June 2013 through 15 January 2014 (7 months)
- 16 January 2014 through 15 August 2014 (7 months)

Authority: *This acquisition is being conducted under the authority of the Multiple Award Schedule Program, per 8.405-6(a)(1)(i)(c). The new work is a logical follow-on to an original Federal Supply Schedule order; the original order was placed in accordance with the applicable Federal Supply Schedule ordering procedures, and had not been previously issued under sole source or limited source procedures.*

We recommend that the Government acquire the goods and/or services required by the procurement request noted above.

1. Description of Supplies/Services

This procurement is to provide strategic program planning and analysis, full life-cycle payload development engineering and oversight, science advisory support to the ARC ISS Program and ongoing Standing Review Board (SRB) technical expert support for the Solar Orbiter and ASTRO H flight projects. Support shall include, but not be limited to, the following:

- Assisting the ARC ISS Program leadership with strategic planning and analysis, and in the development of communications strategies, required to further develop the ARC ISS Program Office;
- Developing program and project plans and full life cycle project documentation as required by NASA Procedural Requirements (NPR) 7120.5 for space projects;

- Supporting life-cycle review activities such as System Requirements Reviews (SRRs);
- Preliminary Design Reviews (PDRs), Critical Design Reviews (CDRs), Flight Readiness Reviews (FRRs), and launch activities;
- Providing highly skilled Subject Matter Experts (SMEs) in support of engineering and scientific activities required by the ISS Program Office for Life Science and ISS payloads, both within the Space Life & Physical Sciences Research and Applications (SLPSRA) Headquarters organization and as supported by the Johnson Space Center/National Lab funding streams. Support will include top level advisory committee participation (e.g. support to the Chairman of the Solar Orbiter SRB and the ASTRO SRB), Science and Hardware Advisory Committee for the ARC Life Science Research and functionality development programs, project management, engineering, and other specialty disciplines.
- Providing support for Integration and Test (I&T), Verification, and launch support activities.

NASA/Ames Research Center (ARC) is performing project and program level support to the ISS Utilization Program and program level support for two current SRBs. The ISS activities are currently in a very critical stage of development and continuity of technical support is critical to maintenance of schedule. The support that Logyx is uniquely capable of providing for near-term reviews and project milestones is critical and of vital importance to ARC. Because of the need for continuity of support to the ISS Program, and particularly for the Solar Orbiter and ASTRO-H SRBs, this sole-source award with an estimated value of \$ [REDACTED] will provide support and services for up to 27 months, consisting of a five-month base, followed by three option periods (eight, seven, and seven months in durations) that are designed to align with current milestones impacting the ISS Utilization Program and the ongoing SRBs, as outlined below.

2. Market Research, and Procurement History:

The new work is a logical follow on to work done under BPA NNA09DA04Z. Specifically, work to be performed under the proposed follow-on BPA was previously performed in accordance with four task orders under that BPA: NNA11AC05T (ASTRO-H), NNA12AA37T (Solar Observer), and NNA10DF13T and NNA11AC70T (ISS National Lab Support). The original BPA was issued in accordance with the applicable Federal Supply Schedule ordering procedures and had not been previously issued under sole source or limited source procedures.

The BPA was awarded competitively in October 2008 with a \$ [REDACTED] or three-year limit placed on the contract. Based on the Center's emphasis on Small Spacecraft Projects and Programs, the contract reached its funding limit in well under two years. [REDACTED] dollars were added to the funding limit in July 2010 to allow project and program level work for a variety of flight activities to continue through December 2010. An additional \$ [REDACTED] were added to the funding limit in December 2010 and another \$ [REDACTED] were added in December 2011 to allow for an extension of only the Lunar Atmosphere and Dust Environment Explorer (LADEE) support through March 2013, when the Project Engineering and Support Services (PESS) contract is scheduled to be competitively awarded.

Because the current BPA no longer supports non-LADEE requirements, the Government intends to award a follow-on BPA that will accommodate the non-LADEE requirements. This will serve the following goals:

- 1) To provide a limited source bridge contract until a larger broader contract for Mission Support Services can be competitively awarded. The Mission Support Services contract is expected to be awarded during the First Quarter of Fiscal Year 2013; the proposed base period of performance aligns with this expectation.
- 2) To provide continued critical programmatic, engineering and science advisory panel support for ARC's ISS Program and to provide sustained SRB technical expertise for the ASTRO-H and Solar Observer programs. Experience has shown that these services cannot be effectively and efficiently transitioned without significant and unacceptable program risk. No contractor other than Logyx can provide the technical expertise and historical experience necessary to ensure the continuity of service necessary to support program success at this juncture. The proposed option periods align with programmatic milestones for these programs. Critical support will be necessary until the attainment of critical program milestones for ASTRO-H and Solar Observer, as outlined below.

Logyx has provided the science expertise to the science advisory panel for the ISS rodent habitat project. This panel provided scientific guidance for the project team until the expiration of NNA11AC70T (ISS National Lab Support). The rodent habitat development effort has an extremely tight development schedule of sixteen months. It is vital that the science experts from Logyx that started the project continue to provide scientific guidance and evaluation of design concepts for the technical team.

Because of the critical nature of pending actions in support of the ISS Program, it would not be advisable to competitively select a new contractor at this time. It is expected that the highly qualified SRBs will be re-assembled soon to review major milestones for the ASTRO-H and Solar Orbiter space projects. Both the ASTRO-H and Solar Orbiter projects have established SRBs. These SRBs have included Logyx since inception. It is critical for ongoing continuity that the SRBs be composed of the same team members.

Pending SRB reviews include the following:

| Project | Review Description | Estimated Date |
|------------------|---|-----------------------|
| Solar Orbiter | SoloHI Instrument Program Design Review (PDR) | August 2012 |
| | HIS Instrument PDR | November 2012 |
| | Confirmation Readiness Review (CRR) | December 2012 |
| | Confirmation Review (a Key Decision Point – C, or KDP-C, meeting) | December 2012 |
| ASTRO-H | Post-Launch Assessment Review (PLAR) | August 2014 |

Transitioning to a new contract abruptly at this stage of the project could place many ISS Program current tasks and SRB milestones in serious jeopardy. Without this award, the SRBs and the science advisory panel would need to be re-established and could seriously affect the viability of these activities. Allowing the ISS Utilization Program Office to continue to meet near-term milestones, without disruption while planning for a transition to the new contract, will minimize risk to the Center, maximize the probability of success for this critical program, and, is therefore in the best interest of the Government. For the reasons set forth above, it was determined not to conduct market research among other schedule holders for this requirement.

3. Unique Qualifications:

FAR 8.405-6(a)(1)(i)(c) states that circumstances which may justify restricting consideration include: "In the interest in economy and efficiency, the new work is a logical follow-on to an original Federal Supply Schedule order provided that the original order was placed in accordance with the applicable Federal Supply Schedule ordering procedures. The original order must not have been previously issued under sole source or limited source procedures."

The subject action here – i.e., a new follow-on BPA to allow continuity of support between the original BPA that was awarded off the Federal Supply Schedule and the pending Mission Support Services contract – constitutes "a logical follow-on to an original Federal Supply Schedule order." Further, the original order was "placed in accordance with the applicable Federal Supply Schedule ordering procedures" and was not "previously issued under sole source or limited source procedures." Thus, the regulatory requirement to limit competition, "in the interest of economy and efficiency," as specified herein is fully met.

The original BPA, NNA09DA04Z, is still active, but the December 2011 extension to its period of performance narrowed its scope to support of non-LADEE work only. Because the tasks described in detail in the following paragraphs are non-LADEE requirements, they can no longer be satisfied by issuing tasks against the original BPA, even though they were within its scope prior to its narrowing four months ago. Thus, the new BPA is needed to accommodate these follow-on, non-LADEE requirements until the competitive Mission Support Services is awarded, when the tasks can be transitioned in a managed fashion to that procurement vehicle. Continuity of effort is vital to sustaining the viability of ARC's ISS Program and to ensure continued receipt of critical funding.

Given the accelerated schedules of several ISS payloads, it is critical now to obtain immediate support from highly skilled personnel with a detailed understanding of ARC ISS requirements and processes even for support that can be transitioned to the planned Mission Support Services contract. Logyx has a long history with the ARC Space Shuttle and ISS programs dating back to 1996, giving it a unique understanding of the goals and objectives of the ISS Program Office. Its workforce has the expertise and knowledge of ISS hardware verification, payload interfaces and mission operations and possess extensive knowledge of NPR 7120.5 and SRB formal procedures derived from actual performance of support services to these critical and complex programs. For example, Logyx was instrumental in the development and preparation of the ARC ISS Program Plan released in November 2010 and prepared the Telemedicine White Paper that formed the framework for strategic planning performed by the ISS Program Office.

Currently, the ISS program is under a significant schedule compression and requires expertise that can immediately contribute in a substantive way without the schedule and technical risk associated with the protracted learning curve that can be expected during the transition of a program as complex as ISS. Logyx has successfully provided services for several similar complex ARC programs: 1) Robotic Lunar Exploration Program (RLEP); 2) the Lunar Crater Observation and Sensing Satellite (LCROSS) mission; 3) the Multi-Mission Operations Center; and 4) the LADEE mission. It currently provides support to the Multi-Mission Operations Center and LADEE at ARC in the areas of test & integration, software development, orbital mechanics and systems engineering. This successful performance history has prepared Logyx to successfully perform similar requirements for the ISS Utilization Office pending their transition to the Mission Support Services contractor.

Awarding a "follow-on" BPA and associated orders as provided herein is imperative, because unique and rapid access to the technical experts with key program knowledge is needed to complete critical ISS milestones and imminent SRB reviews of major importance to NASA. Continuing all ISS contract tasks through the award of the Mission Support Services contract in the First Quarter of Fiscal Year 2013 will allow continuity for near-term tasks and provide sufficient time to plan for a transition to a new contract.

An abrupt transition to a new contract at this time, even if one were available, would not be in the best interest of the Government.

Further, it is vital that this follow-on BPA be awarded to provide support to ASTRO-H, and Solar Orbiter. SRB tasks for these projects have critical, near-term milestones and reviews pending that are dependent on the skills and expertise uniquely accessible to Logyx. A contract change at this time would seriously disrupt the flow of technical reviews scheduled for these projects. Logyx has been inextricably involved with the SRBs for both ASTRO-H and Solar Orbiter since the very earliest phases of the projects. It provides highly skilled technical resources and represents 30 percent of the SRB membership. The Logyx SRB members were carefully selected for the technical expertise each possesses, and this expertise complements the skills of the NASA civil servants that comprise the remaining 70 percent of the board. Because SRBs meet periodically with the associated project teams and are engaged in a holistic development process that includes significant decision-making, project governance, and technical oversight, continuity of SRB membership is critical to project success. Given the highly complex nature of spacecraft development, with multiple instruments and international partners, it is particularly critical that the Logyx personnel embedded in the SRBs remain accessible and engaged through Flight Readiness Reviews for both the Solar Orbiter and ASTRO-H projects. Without this award, the SRBs would need to be re-established. This would impact ASTRO-H and Solar Orbiter substantially and place mission-critical milestones at risk.

The award to Logyx of a \$ FOIA EX 3 BPA for the issuance of Firm-Fixed Price orders for ISS Utilization Program support represents the best value to the Government and is necessary given the December 2011 narrowing of the scope of NNA09DA04Z to support only non-LADEE work. An award to any other source would result in substantial duplication of cost to the Government that is not expected to be recovered through competition and would cause unacceptable delays in fulfilling the Agency's requirements.

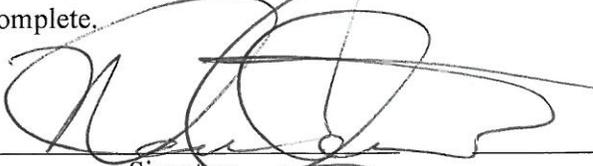
4. Statement of the Actions take to Remove Barriers that led to the Restricted Consideration and Other Facts Supporting the Use of Other-Than Full-and-Open Competition:

It is anticipated that a new and larger Mission Support Services contract will be competitively awarded in the First Quarter of Fiscal Year 2013 and that the tasks not associated with providing continuity of expertise for the ASTRO-H and Solar Orbiter SRBs will transition to this new contract at that time. This action will ensure that there are no barriers to competition for future engineering support.

LIMITED SOURCES JUSTIFICATION (\$650K-12.5M)

Requirement Initiator:

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



Signature

3/31/12

Date

Directorate Manager:

(Concurrence)



Signature

3/31/12

Date

Contracting Officer:

(Determination)

I hereby determine that the order represents the best value to the Government, consistent with FAR 8.404(d), and will be fair and reasonable. I certify that this justification is accurate and complete to the best of my knowledge and belief.



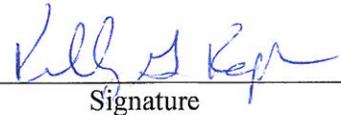
Signature

2 April 2012

Date

Procurement Officer:

(Concurrence)



Signature

4/12/2012

Date

**Ames Research Center
Competition Advocate:**

(Approval)

Based on the justification and certifications set forth above, I approve the limiting of sources pursuant to the authority of 8.405-6(a)(1)(i)(c)



Signature

4/19/2012

Date

cc: JAB:241-1 (after approval)