

LYNDON B. JOHNSON SPACE CENTER (JSC)  
HOUSTON, TEXAS

JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION  
PURSUANT TO 10 U.S.C.2304(c)(1)

**1. This document is a justification for other than full and open competition prepared by the NASA JSC.**

The International Space Station (ISS) Program Office is responsible for the continuing support for the Robotics Work Station (RWS) hardware and software sustaining engineering and Grapple Fixture (GF) sustaining engineering. This procurement will provide the ISS Program with continuing technical expertise for long-term operations support.

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

This justification provides the rationale for awarding a follow-on contract for RWS support by other than full and open competition to Canadian Commercial Corporation (CCC) as the prime contractor, and MacDonald Dettwiler Associates (MDA) Space Missions Division as the subcontractor. In accordance with the International Agreements signed in 1956, any contract put in place with the Canadians has to go through Canadian Commercial Corporation (CCC). Therefore, NASA cannot contract directly with MDA.

CCC with MDA as the subcontractor, has performed Shuttle Remote Manipulator System (SRMS)/Integrated Boom Assembly (IBA)/RWS work under the following NASA contracts:

<b>Contract Number</b>	<b>Period of Performance</b>	<b>Effort</b>
NNJ08GA03C	January 1, 2008, through December 31, 2012	SRMS/IBA/RWS
NAS9-03045	January 1, 2003, through December 31, 2007	SRMS/IBA/RWS
NAS9-97220	January 19, 1998, through December 31, 2002	SRMS/RWS
NAS9-18552	January 1, 1992, through December 31, 1997	SRMS/RWS
NAS9-15712	May 1, 1979, through December 31, 1991	SRMS/RWS

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

This is a 2-year and nine month Firm-Fixed price contract for the RWS and GF sustaining requirement, with some Indefinite Delivery/Indefinite Quantity effort to provide hardware requirements and system design studies as required. This contracts basic period of performance is January 1, 2013 through September 30, 2013. Option one is October 1, 2013, through September 30, 2014. Option Two is October 1, 2014, through September 30, 2015. The estimated value of this acquisition is \$9.625 million. In order to meet major objectives, this procurement will provide the ISS Program with continuing technical expertise, and expert program management support for long-term operations. The RWS and Grapple Fixtures are essential to Visiting Vehicle capture

operations and robotic maintenance of ISS capabilities provided by the Mobile Servicing System (MSS).

This expert technical and program management support is essential to maintain the RWS software, hardware, and ISS grapple fixtures and prevent deterioration in system reliability and operating safety through both scheduled and unscheduled maintenance, and the ability to procure new flight hardware and/or spares. There is also the responsibility for logistics and inventory management to support maintenance, overhaul, and repair activities and the continued implementation, updating, and improvement of an electronic, remotely accessible data base, which includes hardware configuration data, test data, anomaly tracking, and other historical data required by the ISS program support.

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

The statutory authority for proceeding with this acquisition under other than full and open competition is 10 U.S.C. 2304(c)(1), and FAR 6.302-1, which states that full and open competition need not be provided for when the supplies or services required by the Agency are available from only one responsible source, and no other type of 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:**

MDA as the subcontractor, by virtue of being the designer, developer, and manufacturer of the RWS from its inception date, has acquired a unique level of expertise and corporate knowledge necessary to provide the required program support that is currently not available from any other source. MDA has the documentation, equipment, facilities, and the personnel expertise required for all areas of program technical expertise to the RWS. MDA is the expert in the field of space telerobotic systems and hardware, these qualifications and resources are not available from any other company.

**6. Description of the efforts made to ensure that offers are solicited from as many potential sources as practicable:**

A Non-Competitive Synopsis was issued on July 3, 2012 with a closing date of July 18, 2012 on the NASA Acquisition Internet Service (NAIS) to inform potential sources of NASA's intent to award this work to the CCC/MDA. This synopsis provided potential sources with the opportunity to be considered based upon their qualifications and capabilities in order to obtain competition to the maximum extent practicable. This synopsis also stated the Government's intent to contract for these services on a sole source basis for a period of two years, nine months, January 1, 2013 through September 30, 2015, with CCC. No responses were received.

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

Upon approval of this justification, negotiations will commence with CCC. The Contracting Officer fully expects that a fair and reasonable cost can be negotiated. Because this effort is a follow-on effort, there is much historical data available to evaluate the proposed cost. The estimated cost of this effort was evaluated and coordinated with the contractor through the budget planning process. Additionally, the CCC will audit and certify the rates that will be used to determine the estimated cost. The Contracting Officer's Technical Representative and the Contracting Officer will review the proposed hours, skill mix, and any other proposed costs.

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

A Non-Competitive Synopsis was issued on July 3, 2012 with a closing date of July 18, 2012, that serves as a market survey for the proposed contract and the results showed no one else is capable of providing expert program management support of all activities to maintain the RWS software, hardware, and grapple fixtures.

The results of the market survey are detailed in paragraph 9, below.

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

- a. The CCC is a not-for-profit organization established to assist Canadian industry in the export of goods and services to foreign governments. The CCC is a crown corporation of the Government of Canada and acts as Canada's international contracting and procurement agency. MDA is the first-tier Subcontractor. The CCC provides NASA with a guarantee of contract performance backed by the Government of Canada.
- b. The equipment required to perform the effort is already resident on the ISS. Any modifications to either the hardware or software can only be done by MDA. There are no plans to replace this hardware with any new hardware having the same capability.

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

To date, the ISS Program has not received any inquiries about the RWS project from the Acquisition Forecast.

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

The RWS is required through the term of the ISS. Beyond the life of the ISS, the needs for this technology are uncertain. The future needs of the Agency along with the capabilities in the market place will be continuously monitored for the potential to compete any future requirements.