



18--SABATIER SYSTEM FOR ISS

General Information

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Naics Code: 927110 -- Space Research and Technology

Contracting Office Address

NASA/Goddard Space Flight Center, NASA Headquarters Acquisition Branch,
Code 210.H, Greenbelt, MD 20771

Description

NASA is contemplating awarding a contract to supply a Sabatier-reaction based carbon dioxide reduction system that will be operated in a service based model as part of the International Space Station's (ISS) Environmental Control and Life Support System (ECLSS) currently in development and operation on the ISS. The purpose of this sources sought synopsis is to identify any potential commercial companies that could provide this service. This contract will provide a service by supplying flight hardware and operational support for a Sabatier system onboard the ISS to enabling the ability to create water from the

byproducts of the ECLSS Oxygen Generation System (OGS) and Carbon Dioxide Removal Assembly (CDRA). The Sabatier system must operate integrated with the OGS and CDRA. The contractor will be given NASA's interface and acceptance requirements but NASA will not be involved other than insight to ensure safety. NASA will not participate in any design reviews or impose any specifications on the design except for those defined in supplied safety, interface and acceptance requirements. The contractor will develop, procure, and build flight hardware, support equipment needed for operations, and training material within a schedule to meet delivery at least 6 months before the currently scheduled ISS assembly mission 20A which has a current manifest planning date of January 2010. If the contractor chooses another delivery schedule the flight hardware will need to meet the launch requirements for the proposed launch vehicle. The contract period of performance is anticipated to be for a minimum of five years of on orbit operations plus the time proposed for development and launch delivery. The contractor will provide the capability for on-orbit maintenance including maintenance and logistics planning and provision of spare parts. NASA will be interested in contract models that would allow the service contract to have a period of performance for longer periods of time. NASA is willing to consider contract models that include fixed price service performance-based contracts with the first payment upon proof of operations on-orbit or the possibility of final acceptance ground testing with the majority of payments contingent upon on-orbit performance criteria. Payment schedules of a fixed yearly level payable upon the completion of a given operational year would be highly desirable to NASA. The NAICS Code for this requirement is 927110. NASA intends to award a single contract for a period of performance of 5 to 10 years. NASA is seeking interested companies with specialized capabilities to meet the above requirements. NASA is requesting that interested firms submit a Statement of Capability (SOC) expressing their desire and ability to meet the Sabatier System for ISS (SSI) objectives. Potential sources must submit a written SOC to the contact listed in this announcement. The SOC shall contain pertinent and specific information addressing these areas: (1) Experience: an outline of previous projects, specific work previously performed or being performed and any in-house, research and development effort, relevant to the specific task areas of this effort; (2) Personnel: position description, professional qualifications and specific experience of scientific, engineering and program management personnel who might be assigned to work in areas of the subject effort; (3) Facilities: identification of specialized facilities and equipment which is owned or leased or is otherwise available as non-GFE to the respondent and might be utilized in support of this effort; and (4) Financial: ability to meet financial commitments to support the development efforts required to perform in the technical areas under consideration. All submissions are limited to 25 pages. Additional reference material beyond the page limit or links to web sites will not be accepted. No solicitation exists; therefore, do not request a copy of the solicitation. If a solicitation is released it will be synopsisized in FedBizOpps and on the NASA Acquisition Internet Service. It is the potential offeror's responsibility to monitor these sites for the release of any solicitation or

synopsis. This synopsis is for information and planning purposes and is not to be construed as a commitment by the Government nor will the Government pay for information solicited. Respondents will not be notified of the results of the evaluation. Respondents deemed fully qualified will be considered in any resultant solicitation for the requirement. All responses shall be submitted to Amanda J. Kreusch, Contract Specialist at amanda.j.kreusch@nasa.gov no later than January 19, 2007 and should reference the Sabatier Sources Sought Notice.

Point of Contact

Amanda J Kreusch, Contract Specialist, Phone (301) 286-5091, Fax (301) 286-0357, Email amanda.j.kreusch@nasa.gov
Email your questions to Amanda J Kreusch at amanda.j.kreusch@nasa.gov

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Naics Code: 927110 -- Space Research and Technology

Contracting Office Address

NASA/Goddard Space Flight Center, NASA Headquarters Acquisition Branch, Code 210.H,
Greenbelt, MD 20771

Description

NASA/HQ intends to award a sole source contract to Hamilton Sundstrand pursuant to 10 U.S.C. 2304(c)(1), only one responsible source. This procurement is for on-orbit water production services using a Sabatier-reaction based system for the International Space Station. The Space Operations Mission Directorate (SOMD) is contracting for a Sabatier-based reaction system for the International Space Station (ISS). The contractor shall complete the Design, Development, Test and Evaluation (DDT&E) of the Sabatier System and NASA will pay only for the performance of the system upon operation on orbit as part of the ISS. NASA will serve in a limited capacity to assure safety. The contractor shall provide Failure Mode and Effects Analysis (FMEA) along with Hazard Analysis. NASA will handle launch, on-orbit operations, and maintenance within the defined mass and servicing levels defined by the contract. The Contractor shall provide the necessary data products required for operation procedures, launch

constraints, and others. The Contractor shall conduct all technical DDT&E of the system. The Contractor is responsible for showing that the system will be safe and not damage any other ISS hardware by meeting the provided interface and acceptance testing criteria. The contractor will develop, procure, and build flight hardware, support equipment needed for operations, and training material within a schedule to meet delivery at least 6 months before the currently scheduled ISS assembly mission 20A which has a current manifest planning date of April 2010. If the contractor chooses another delivery schedule for the flight hardware, the contractor will need to meet the launch requirements for the proposed launch vehicle. The contract period of performance is anticipated to be for a minimum of five years of on orbit operations plus the time proposed for development and launch delivery. The contractor will provide the capability for on-orbit maintenance including maintenance and logistics planning and provision of spare parts. Any maintenance while on orbit of the system beyond the negotiated maintenance will incur a financial penalty on a per hour basis and consumables or replacement parts that are required beyond the negotiated plan needing to be delivered to the ISS will also incur a financial penalty on a mass basis. To mitigate the on-orbit delivery of mass (operational unit and consumables) the contractor shall define an up mass delivery schedule that includes mass, volume, and delivery phasing. These elements will be part of the detailed negotiation with the contractor and the result would be a performance metric in the payment calculation. The formula for calculating payment for the operational year is based on the completion of the performance evaluation criteria along with any penalties from crew time and deviation from mass and volume schedule. The Government does not intend to acquire a commercial item using FAR Part 12. See Note 26. Hamilton Sundstrand is the only source that can meet the Government requirements. The groundwork in Sabatier technology previously undertaken by Hamilton Sundstrand and its industry team is unique and is completely appropriate for adaptation to the new service-based model Sabatier System for the International Space Station. No other entity has the on-going and continuous past experience in combination with facilities and the financial resources and openness to the service-based contracting model. Therefore, only Hamilton Sundstrand is adequately equipped to provide this service to NASA. Any other firms desiring consideration are requested to fully identify their interest and capabilities within 15 days of the date of publication of this synopsis to the NASA HQ office and contact listed below. An Ombudsman has been appointed. See NASA specific note "B." Any referenced notes may be viewed at the following URLs linked below.

Point of Contact

Amanda J Kreusch, Contract Specialist, Phone 301-286-5091, Fax 301-286-0357, Email amanda.j.kreusch@nasa.gov

Email your questions to Amanda J Kreusch at amanda.j.kreusch@nasa.gov

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