

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE	OF	PAGES
		1		60

2. AMENDMENT/MOD NO. <p style="text-align: center;">1</p>	3. EFFECTIVE DATE <p style="text-align: center;">See Block 16C</p>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO.
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6. ISSUED BY NASA Lyndon B. Johnson Space Center BT/Tim A. Boyes 2101 NASA Road Parkway Houston, TX 77058-3696	CODE <p style="text-align: center;">BT</p>	7. ADMINISTERED BY <p style="text-align: center;">Same as Block 6</p>	CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)	(9)	9A. AMENDMENT OF SOLICITATION NO <p style="text-align: center;">NNJ10345432K</p>
	<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11) <p style="text-align: center;">8/6/10</p>
	<input type="checkbox"/>	10A. MOD. OF CONTRACT/ORDER No
	<input type="checkbox"/>	10B. DATED (SEE ITEM 13)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers (IS OR IS NOT) extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one (1) copy of the amendment;

(b) By acknowledging receipt of this amendment on each copy of the offer submitted; or

(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

Financial Management

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- D. OTHER (Specify type of modification and authority)

IMPORTANT: Contractor (is or is not) required to sign this document and return ____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of Amendment # 1 is to add Appendix C, SF 33/MODEL CONTRACT and update sections of the solicitation to extend the questions received and proposals response due dates.

Continued on Page 2.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER <p style="text-align: center;">Tim A. Boyes</p>
15B. CONTRACTOR/OFFEROR <p style="text-align: center;">(Signature of person authorized to sign)</p>	16B. UNITED STATES OF AMERICA <p style="text-align: center;">(Signature Of Contracting Officer)</p>
15C. DATE SIGNED	16C. DATE SIGNED <p style="text-align: center;">8-31-10</p>

[Continuation of Block 14 of the SF 30, Amendment of Solicitation.]

The following sections of the solicitation are hereby amended:

1. Section I, INTRODUCTION, paragraph 3, page 3, is amended to extend the questions due date to September 3, 2010.
2. Section II, GENERAL INFORMATION, (4), page 3, is amended to extend the response date to September 15, 2010.
3. Section VI, PROPOSALS, 1. Submission Instructions, pages13-17 is amended to add the following Model Contract instructions: In order to facilitate award without discussions, offeror's shall complete the SF 33, SOLICITATION, OFFER AND AWARD, blocks 12-18 and sign/date with attached (3) copies of the Model Contract in Appendix C. The model contract and SF 33 are not part of the proposal page count.
4. Appendix C, SF 33/ Model Contract is added to the solicitation.

Replacement pages for the aforementioned changes are attached.

I. INTRODUCTION

This publication constitutes a Broad Agency Announcement (BAA) as contemplated by Federal Acquisition Regulations (FAR) Part 35 and NASA FAR Supplement (NFS) Part 1835. A formal Request for Proposal (RFP), solicitation, and/or additional information regarding this announcement will not be issued unless formally submitted in writing to the Contracting Officer.

NASA will not issue paper copies of this announcement. NASA reserves the right to select for award all, some, or none of the proposals in response to this announcement. NASA provides no funding for direct reimbursement of proposal development costs. It is the policy of NASA to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

Potential offerors may submit questions regarding this BAA in writing via e-mail to Tim Boyes, Contracting Officer, at timothy.a.boyes@nasa.gov, not later than 4:30 p.m. (Central Time) on **September 3, 2010**.

This BAA is soliciting proposals for: four (4) separate areas of work. These areas were chosen to mirror and gain data from the natural design, development, testing, integration and operation of space flight hardware. NASA is interested in obtaining the data derived from these four primary areas as further defined in the TECHNICAL REQUIREMENT section of this BAA:

1. Critical Component Demonstration
2. Ground Test/Mission Simulation of Flight Hardware
3. Basic Capabilities
4. Enhanced Capabilities

II. GENERAL INFORMATION

1. **Agency Name:** NASA
2. **Research Opportunity Title:** Innovative Lander Demonstrations Data (ILDD)
3. **Program Name:** NASA Constellation Lunar Lander Project Office
4. **Response Date:** September 15, 2010
5. **Point of Contact:** All questions shall be directed to the cognizant NASA Contracting Officer as specified below. All questions shall be submitted in writing. Questions and responses will be posted on the JSC Procurement website:

The Government intends to evaluate proposals and award contracts without having discussions with offerors. **In order to facilitate award without discussions, offeror's shall complete the SF 33, SOLICITATION, OFFER AND AWARD, BLOCKS 12-18 and sign/date with attached (3) copies of the Model Contract in Appendix C. The Model Contract and SF 33 are not part of the proposal page count.**

Therefore, the offeror's initial proposal should contain the offeror's best terms from a value and technical standpoint. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary.

2. Proposals must include the following material, in this order:

Part 1: Technical Approach (Maximum 10 Pages) The offeror shall submit the following technical documents:

- Concept of Operations – General operational layout and description of the mission, including proposed Earth launch vehicle, elements used to perform all significant burns, proposed landing trajectory, and proposed surface operations.
- Conceptual Vehicle Design – Description of the major subsystems associated with the primary vehicle, including high level schematic drawings of the overall vehicle and subsystems as appropriate. Additionally, a description of any heritage hardware or software being utilized shall be included.
- Demonstrated Performance with Relevant Technical Endeavors – Description of performance on past endeavors and the relation of that experience to the mission outlined in the Concept of Operations.

Part 2: Business Model (Maximum 10 Pages) The offeror shall submit the following business documents:

- **Business Strategy** – Description of the core aspects of the offeror's business strategy for successful completion of the technical approach detailed in Part 1. This shall include:
 - The availability of adequate financial resources, including evidence of any planned commitments or other explicit arrangements that will be in existence at the time the contract is awarded
 - The availability of the production, construction and technical equipment and facilities necessary for successful performance
 - A description of the proposed organizational structure and significant team members (if applicable) which should address the ability to access necessary,

skilled technical resources. Offerors shall also include a statement of commitment by significant team members (if applicable).

- **Financial Plan** – Using the table format in Appendix A, describe the funding available by government fiscal year that will enable successful accomplishment of each major mission phase of your company’s mission (e.g. ground processing, launch to earth orbit, translunar coast and orbit insertion, lunar landing, etc.). Offeror’s may add rows to the table format as needed and are not required to list non-significant funding sources beyond providing assumptions as to the amount below which a fund source is considered other than significant. Please state any assumptions in the “Additional Comments” column.
 - Threats – Describe the significant potential threats to the success of your business strategy; describe the steps taken to mitigate these risks.

Part 3: Value Proposal (Maximum 5 Pages) The offeror shall submit the following regarding data rights:

- Using the table format in Appendix B, state for each CLIN listed, the rights in data you propose to confer to the Government beyond rights for internal Government use only that are required by this solicitation for each CLIN.
- Additionally, the offeror will need to provide written justification that the government is receiving products of value that are commensurate with the associated prescribed value for each CLIN.

VII. SUBMISSION OF LATE PROPOSALS

Except as provided under NFS 1815.208, proposals received by the Government after the specified date and time for receipt will not be evaluated.

VIII. EVALUATION INFORMATION

Evaluation Factors and Relative Importance. The following factors shall be used to evaluate proposals, in descending order of importance.

a. Factor 1 – Technical Merit

The Government will evaluate the reasonableness and innovativeness of the offeror’s approach. This will include: assessing for a realistic and reasonable approach for successfully completing the design, development, test and evaluation (DDT&E) which

will lead to a successful launch and lunar landing; and assessing for unique and innovative concepts to technically demonstrate an ability to successfully land on the lunar surface. Additionally, the Government will evaluate the effectiveness and relevance of the offeror's demonstrated performance as it relates to the proposed technical approach.

b. Factor 2 – Business Merit

The Government will evaluate the offeror's business strategy and financial plan. This will include: assessing for realistic and reasonable business strategy, including suitable facilities, organizational structure, and for development of spaceflight hardware by fiscal year. In addition, an assessment of funding profile, including threats and mitigation solutions, plus a reasonable indication that the technical mission as outlined is properly supported to meet a lunar landing.

c. Factor 3 – Value Merit

The Government's evaluation of value, above the required minimum Government use of data rights, will be based on an assessment of the offeror's willingness to confer data rights to the government for each data deliverable including what limitations the government will have regarding use/distribution of the data.

IX. EVALUATION PANEL

Evaluation of the proposals received in response to this BAA will be accomplished by Government Personnel only. All Government personnel participating in the evaluation will be required to comply with applicable procurement regulations and NASA policy to protect proprietary and source-selection information.

X. AWARD INFORMATION

1. **CCR.** Successful offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any contract. Information on CCR registration is available at <http://www.ccr.gov>.
2. **Certifications.** A complete package of certifications and representations will be required before the execution of any contract and should be included with the proposal.
3. **Multiple Awards.** NASA anticipates multiple awards, which represents the best value to the Government in accordance with the evaluation criteria. The overall number of

awards will be dependent upon the quality and innovativeness of proposals received, funding availability, and evaluation results.

4. **Period of Performance.** Period of performance of the contracts will be up to 5 years following the authorization to proceed effective date.
5. **Award Date.** Selection and award is anticipated by October 2010.
6. **Funding Allocation.** The Government's overall budget for issuing awards under this BAA is anticipated at \$30,100,000.00. Individual award amounts are limited to not more than \$10,010,000.00.
7. **Contract Deliverables.** The resultant contract awards will include the following deliverable requirements:

System Definition Review (SDR) Data Package: (Basic Deliverable CLIN for IDIQ Minimum Order)

Within 21 days of contract award, all selected offerors shall submit a written System Definition Review (SDR) data package as defined below. Acceptance of this SDR data package satisfies the \$10,000 minimum order. At a minimum 1 hard copy and 1 CD-ROM shall be submitted.

The participant shall provide a SDR data package to include:

- a. System goals and objectives
- b. A description of the offeror's concept of operations at a level of detail appropriate for a detailed analysis of the mission profile including timing of critical events- staging events, insertion burns, and landing,
- c. Integrated vehicle – launch vehicle(s) description and capabilities- payloads, mass fractions, trajectory and calculations of mass to target, margins, NOTE: NASA may ask for supporting data to enable a performance of an independent trajectory analysis.
- d. Launch site and processing events.
- e. Communication systems to be used throughout the mission.
- f. Description of what subsystems are used during each phase of the mission and the maturity of those subsystems currently.
- g. The offeror's verification and validation approach for spacecraft hardware and software.
- h. Technical resource utilization estimates and margins.
- i. A Technical Data Package (e.g., Integrated Schematics, Interface Control Documents, engineering analyses, specifications).
- j. A list of the top ten risks and associated risk mitigation plan for each.

Task Order CLIN Data Packages:

The data requested for each CLIN may be further defined in the specific task order for that CLIN. Similarly, the format of the data will be specified within each CLIN TO will include submittal timelines and other requirements as appropriate. In general, all CLINs will require written submissions of the data outlined within this BAA and further defined in the specific task order. In addition to the written submissions, data may also be required in other non-written formats such as: orally, visually (pictures/video), or via direct telemetry.

Appendix C: SF 33/Model Contract