

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

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| 1. CONTRACT ID CODE 12 | | PAGE OF PAGES 1 2 | |
| 2. AMENDMENT/MODIFICATION NO. Amendment 3 | 3. EFFECTIVE DATE See Block 16C. | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) SLS AD |

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| 6. ISSUED BY Procurement Office George C. Marshall Space Flight Center National Aeronautics and Space Administration Marshall Space Flight Center, AL 35812 | PS42 MJB | 7. ADMINISTERED BY (If other than item 6) NASA/MSFC Attn: Monica Heidelberg Marshall Space Flight Center, AL 35812 | CODE PS42 |
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| 8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code) | <input checked="" type="checkbox"/> | 9A. AMENDMENT OF SOLICITATION NO. NNM12ZPS002N |
| | <input checked="" type="checkbox"/> | 9B. DATED (SEE ITEM 11) March 20, 2012 |
| | | 10A. MODIFICATION OF CONTRACT/ORDER NO. |
| | | 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 extended. 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 0 copies 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)
Not applicable.

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

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| (√) | 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 data, 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) |

E. IMPORTANT: Contractor is not, is 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.)

See changes as outlined on page 2 of this amendment.

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.

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| 15A. NAME AND TITLE OF SIGNER (Type or print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) | |
| | | Monica Heidelberg Contracting Officer | |
| 15B. CONTRACTOR/OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 16C. DATE SIGNED |
| BY _____ (Signature of person authorized to sign) | | BY <i>Monica Heidelberg</i> (Signature of Contracting Officer) | 5/3/2012 |

The purpose of this amendment is to modify NASA Research Announcement (NRA) NNM12ZPS002N, for the Space Launch System (SLS) Advanced Development acquisition as summarized below.

1. Modify the NRA Table of Contents to add Letters of Intent.
2. Modify the NRA Section 4.2.8.11.2 to revise the required constituent parts of the proposal, page limit, and revise the page numbering format for Letters of Intent.
3. Modify the NRA Section 2.1 Funding and Award Policies and Section 2.3 Award Period of Performance to add an effective date.

Specific changes to the NRA are further identified in the paragraphs below.

1. NRA Table of Contents is hereby amended to add Letters of Intent under Section 2 – Intrinsic Merit to the list of items to be included in the proposal submittal. See NRA replacement page 9.
2. NRA Section 4.2.8.11.2 is hereby amended to add Letters of Intent as a required constituent part of the proposal and add page limit and page numbering format. See NRA replacement page 18.
3. NRA Section 2.1 Funding and Award Policies and Section 2.3 Award Period of Performance is hereby amended to add an effective date of October 1, 2012.
4. The following pages of the NRA NNM12ZPS002N solicitation are revised or added as attached hereto and made an inseparable part thereof.

Revised Pages

NRA: pages 3, 9, and 18

5. The amendment consists in its entirety of Standard Form 30, page 2, and the revised/added pages listed in Paragraph 4 above. No other changes are incorporated at this time. All other terms and conditions of the NRA will remain in full force and effect.

later award should the opportunity become available, unless withdrawn by the Offeror prior to award.

It is anticipated that awards made through this NRA will be in the form of a firm fixed priced contract for industry and a grant for academia. Offerors are hereby informed that any proposals selected for award/negotiation exceeding \$650,000 in total will be required to submit a small business subcontracting plan prior to award, in accordance with Federal Acquisition Regulation (FAR) 19.704, Subcontracting Plan Requirements. It is anticipated that the base period of performance for contracts or grants awarded as a result of this solicitation is 12 months with the potential for two 1-year options and will have an effective date of October 1, 2012. Each Offeror shall determine the appropriate allocation of funds based on their work effort.

The total funding anticipated being available and split among industry awards and academic awards made against this NRA is \$48,000,000 broken out as approximately \$22,000,000 for the base year and \$14,500,000 and \$11,500,000 for each of the two additional 1-year options, respectively. Of this total yearly amount, the total funding anticipated being available and split among academic awards made against this NRA is approximately \$2,000,000 for the first year and \$1,500,000 for each of the two subsequent years. Individual academic awards are anticipated to be up to \$250,000 per year. The amount allocated for award is dependent upon the individual Offeror's proposed work effort. NASA anticipates multiple awards to both industry and academia; however, NASA reserves the right to make no award.

2.1 Successor Proposals and Resubmissions. Generally, holders of previous awards selected through any of the programs offered through earlier NRAs including Non-NASA awards are welcome to submit "successor" proposals that seek to continue a previously funded line of research (see 1.5 of *the NASA Guidebook for Proposers*). However, in order to ensure equitable treatment of all submitted proposals, NASA does not extend any special consideration to such successor proposals in terms of preferential handling, review, or priority for selection. Therefore, all proposals in response to this NRA are considered new regardless of their previous history of NASA funding or Non-NASA funding and will be reviewed on an equal basis with other proposals submitted for this NRA.

4.2.7.2 Award Period of Performance. It is anticipated that the period of performance for any award as a result of this NRA will be 12 months with the potential for two 1-year options and will have an effective date of October 1, 2012. Any proposed period of performance shall be justified in the proposal. The appropriateness of the proposed period of performance will be evaluated. NASA may select proposals for shorter award duration than proposed.

4.2.7.3 Industry Offerors should use the Broad Advanced Development Topics presented in Appendix A, Section 5.0 as guidance for focusing the proposed work into areas of interest that have been identified by the ADO.

4.2.7.4 Academic Offerors should use the Focused Advanced Development Topics presented in Appendix A, Section 5.0 as guidance for focusing the proposed work into areas of interest that have been identified by the ADO.

4.2.8 Proposal Content. Proposal submissions are to be clearly separated into four sections: Relevance to NASA's Objectives, Intrinsic Merit, Price, and Model Contract (or Model Grant). Relevant technical or management information and data shall only be included within the Relevance to NASA's Objectives and Intrinsic Merit Sections unless otherwise noted. The proposal shall be assembled with the items given in the following section in the order shown, using the page limits provided herein. All proposal material that exceeds the specified page limits will not be reviewed and evaluated. The page limits provided in this section hold precedence over the page limits supplied in 2.3.1(a) of *the NASA Guidebook for Proposers*. All page numbers shall be clearly displayed in the footer portion of each page. See Table 1 for formatting of page numbers. The proposals shall include the following content and associated information:

- Cover Page
- Abstract
- Table of Contents

Section 1 – Relevance to NASA's Objectives

- Technical Scope
- Improves or Influences Affordability, Reliability, and Performance

Section 2 – Intrinsic Merit

- Management Approach
 - Distribution and Management of Responsibilities and Work
 - Teaming, Partnering, and Subcontracting Arrangements
 - Key Capabilities, Facilities, and Equipment
 - Ground Rules and Assumptions
 - Deviations and Exceptions
- Letters of Intent
- Technical Approach
 - Technical Objectives, Methodology, and Innovation
 - Upgrade Implementation Approach
 - Related Work Experience
 - Current and Pending Support

4.2.8.10.1 Statement of Work. The SOW shall be attached to and made a part of the Model Grant.

4.2.8.10.1.1 Offerors shall submit a detailed SOW that includes a schedule with technical milestones, and a detailed description of deliverables.

4.2.8.10.1.2 Offerors shall submit a detailed schedule of all work items to be undertaken. This schedule shall outline the dependencies of work items and critical path. All long lead items and facility schedule conflicts shall be identified.

4.2.8.11 Proposal Format and Length

4.2.8.11.1 Effort should be made to keep proposals as brief as possible, concentrating on substantive material. Necessary detailed information shall be included as attachments (but remain part of the page count). A complete set of attachments is necessary for each copy of the proposal. Since proposals are not returned, Offerors shall avoid use of “one-of-a-kind” attachments.

4.2.8.11.2 Offerors shall clearly mark and identify each of the pages subject to the page limitations (see Table 1 for numbering conventions). Proposals submitted in response to this announcement shall be written in English and contain the following information in the format shown below:

Table 1. Summary of Proposal Parts, Page Limits, and Numbering Format

| REQUIRED CONSTITUENT PARTS OF PROPOSAL (in order of assembly) | PAGE LIMIT | PAGE NUMBERING FORMAT |
|--|-------------------|---|
| Cover Page | 1 | None |
| Abstract | 1 (200-300 words) | None |
| Table of Contents | 1 | None |
| Relevance to NASA's Objectives and Intrinsic Merit | 15 | 1 – 15 |
| Letters of Intent | As needed | None |
| Appendix E, Subcontractor Information | As needed | E-1 (for all pages needed) |
| Price | 10 | P1 – P10 |
| Model Contract/Model Grant: Statement of Work | 5 | See J of Model Contract or H of Model Grant |
| Model Contract: Data Procurement Document | As needed | See J of Model Contract |
| Model Contract: Work Breakdown Structure | 1 | See J of Model Contract |