

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

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

6. ISSUED BY Procurement Office George C. Marshall Space Flight Center National Aeronautics and Space Administration Marshall Space Flight Center, AL 35812	PS42	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.

<input checked="" type="checkbox"/>	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 pages 2 through 4 of this amendment.

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)	4-11-12

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 8.2 of the NRA to provide additional details regarding coordination and collaboration with the MSFC Partnership Office.
2. Modify 8.3 of the NRA to incorporate the NASA Engine Test Stands point of contact.
3. Modify the NRA Table of Contents to incorporate 8.3 NASA Engine Test Stands.
4. Modify NRA, Appendix E, Subcontractor Information to a PDF fillable form.
5. Correct cell functionality of NRA, Appendix F, Element of Price Detail for Contracts.
6. Modify NRA, Appendix F, Instruction for Element of Price Detail to revise item 12.
7. Modify NRA, Appendix G, Budget Support Required for Specific Costs to revise item 8.
8. Modify the header of the Model Contract, Sections E through J, to read "NRA NNM12ZPS00N2 – Dated March 20, 2012".
9. Model Contract, Sections J, List of Documents, Exhibits, and Other Attachments is hereby amended to annotate Attachment J-4, Subcontracting Plan is to be provided by Offer selected for award with Updated Model Contract.

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

1. 8.2 of the NRA, NASA Partnership Offices, is amended to incorporate the following. See NRA replacement pages 28 and 29.

8.2 NASA Partnership Offices. Each NASA Center has a partnership office that can help coordinate and collaborate with industry and academia to support government agreements or partnerships. For Marshall Space Flight Center (MSFC), detailed requirements should be provided to the Partnership Office by 4:00 pm Central Standard Time on April 16, 2012. MSFC Letters of Intent are anticipated to be issued on May 1, 2012. The proposed Statement of Work (SOW) provided should be prepared in as much detail to permit a meaningful evaluation. Industry and academia should request from the Partnership Office the specific MSFC format for cost estimates to be delivered, such that the costs can be easily integrated into each partner's

proposal. Offerors should contact each respective NASA Center for their corresponding formats and due dates.

2. 8.3 of the NRA, NASA Engine Test Stands, is added as follows. See NRA replacement page 29.

8.3 NASA Engine Test Stands. The following point of contact is provided to assist the Offeror in determining suitable NASA locations for engine testing:

Rocket Propulsion Test Program Manager, Roger Simpson, 228-688-1874,
Roger.D.Simpson@nasa.gov

3. NRA Table of Contents is hereby amended to incorporate 8.3, NASA Engine Test Stands. See NRA replacement pages v and vi. Page vi is amended only to incorporate text which rolled over from page v onto page vi.

4. NRA, Appendix E, Subcontractor Information, is hereby modified to a PDF fillable form. NRA, Appendix E has been updated in its entirety. See replacement page NRA, Appendix E, Subcontractor Information.

5. NRA, Appendix F, Element of Price Detail for Contracts, is hereby modified to correct cell functionality of the form. NRA, Appendix F, has been updated in its entirety. See replacement page NRA, Appendix F, Element of Price Detail for Contracts.

6. NRA, Appendix F, Instruction for Element of Price Detail, item 12 is amended to delete “the name and titles of the civil service personnel along with the number of hours being proposed” from the second sentence. See replacement page Appendix F, page F-3.

7. NRA, Appendix G, Budget Support Required for Specific Costs, item 8 is amended to delete “the name and titles of the civil service personnel along with the number of hours being proposed” from the second sentence. See replacement page Appendix G, page G-3.

8. Model Contract, Sections E - J, is hereby amended to modify the header to read “NRA NNM12ZPS00N2 – Dated March 20, 2012”. See Model Contract replacement pages for Sections E-J.

9. Model Contract, Sections J, List of Documents, Exhibits, and Other Attachments is hereby amended as follows. See replacement page J-1.

10. 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 v, vi, 28, 29

NRA: page E-1 of Appendix E, Subcontractor Information

NRA: page F-1 of Appendix F, Element of Price Detail for Contracts

NRA: page F-3 of Appendix F, Instruction for Element of Price Detail

NRA: page G-3 of Appendix G, Budget Support Required for Specific Costs

Model Contract: Sections E-J (pages E-1, E-2, F-1, G-1 – G-11, H-1 – H-11, I-1 – 24, and J-1)

Model Contract: page J-1

11. The amendment consists in its entirety of Standard Form 30, pages 2 - 4, and the revised/added pages listed in Paragraph 10 above. No other changes are incorporated at this time. All other terms and conditions of the NRA will remain in full force and effect.

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APPENDICES

- Appendix A – Technical Information
- Appendix B – SLS Program Launch Vehicle Specification
- Appendix C – Affordable Upper Stage Engine Program (AUSEP)
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ATTACHMENTS

- Attachment 1 – Model Contract
- Attachment 2 – Model Grant
- Attachment 3 – Data Procurement Document
- Attachment 4 – Questions and Answers

<http://www.hq.nasa.gov/office/procurement/regs/nfstoc.htm>, respectively. Required reports for grants are covered in Exhibit G, Required Reports and Publications, of the *NASA Grant and Cooperative Agreement Handbook* http://prod.nais.nasa.gov/pub/pub_library/grcover.htm.

7.0 NASA CONTACT

Questions related to the preparation and submission of proposals shall be submitted to the point of contact shown below. All questions shall be submitted in writing by 1:00 p.m. Central Standard Time on April 10, 2012. Questions received after the specified date will not be addressed. Questions regarding this NRA will not be answered individually but will be addressed within the issuance of an amendment to this NRA. Inquiries by telephone or in person will not be accepted.

Point of Contact:

NASA Marshall Space Flight Center
Attn: Monica Heidelberg, PS42
Marshall Space Flight Center, AL 35812
monica.d.heidelberg@nasa.gov

Note: Proposals shall not be submitted to this email address. Proposals shall be submitted as described in 4.3 of this NRA, Proposal Submission Dates, Time, and Location.

No communication concerning this NRA may be made to any other NASA official other than those specifically listed in this NRA.

8.0 OTHER INFORMATION.

8.1 Announcement of Updates/Amendments to Solicitation. It is possible that additional programmatic information may develop before the proposal due date. If so, such information will be added as a formal amendment to this NASA Research Announcement (NRA). Such additional information may be, but not limited to, clarifications or questions and answers. It is the responsibility of the prospective Offeror to check for updates concerning the Space Launch System (SLS) Advanced Development acquisition.

8.2 NASA Partnership Offices. Each NASA Center has a partnership office that can help coordinate and collaborate with industry and academia to support government agreements or partnerships. For Marshall Space Flight Center (MSFC), detailed requirements should be provided to the Partnership Office by 4:00 pm Central Standard Time on April 16, 2012. MSFC

Letters of Intent are anticipated to be issued on May 1, 2012. The proposed Statement of Work (SOW) provided should be prepared in as much detail to permit a meaningful evaluation. Industry and academia should request from the Partnership Office the specific MSFC format for cost estimates to be delivered, such that the costs can be easily integrated into each partner's proposal. Offerors should contact each respective NASA Center for their corresponding formats and due dates. The following is contact information for each NASA Center:

- a. Johnson Space Center (JSC) – JSC Strategic Opportunities and Partnership Development Office, 281-483-3000, JSC-Partnerships@mail.nasa.gov
- b. Dryden Flight Research Center (DFRC) – John Del Frate, 661-276-3704, john.h.delfrate@nasa.gov
- c. John C. Stennis Space Center (SSC) – Anne Peek, Assistant Director, Project Directorate, Stennis Space Center, 228-688-1148, Anne.H.Peek@nasa.gov
- d. Goddard Space Flight Center (GSFC) – Nona Cheeks, Chief Innovative Partnership Program Office, 301-286-5810, nona.k.cheeks@nasa.gov
- e. Langley Research Center (LRC) – Michele Ferebee, 757-864-5617, michele.t.ferebee@nasa.gov
- f. Kennedy Space Center (KSC) – KSC Center Planning & Development Office, Tom Engler, 321-861-3127, tom.engler@nasa.gov
- g. Glenn Research Center (GRC) – Office of Technology Partnerships and Planning, Joe Shaw, 216-977-7135, robert.j.shaw@nasa.gov
- h. Jet Propulsion Laboratory (JPL) – Commercial Program Office, Indrani Graczyk, 818-354-2241, Indrani.Graczyk@jpl.nasa.gov
- i. Marshall Space Flight Center (MSFC) – MSFC Partnerships Office, Stacy Counts, 256-544-6004, stacy.m.counts@nasa.gov
- j. Ames Research Center (ARC) – Technology Partnerships Division, David Morse, 650-604-4724, david.r.morse@nasa.gov

8.3 NASA Engine Test Stands. The following point of contact is provided to assist the Offeror in determining suitable NASA locations for engine testing:

Rocket Propulsion Test Program Manager, Roger Simpson, 228-688-1874,
Roger.D.Simpson@nasa.gov

9.0 CONCLUDING STATEMENT

Through this NASA Research Announcement (NRA), NASA encourages the participation of industry and academia in its Space Launch System (SLS) Advanced Development acquisition.

11. Total Cost and Profit/Fee: Enter the sum of items 8 through 10.
12. Proposed Agreement Costs (if any): For Prime Contractors submitting proposals with Government Agencies or Centers as subcontractors, these are the costs associated with performance by the Government Agency. Identify the Government Agencies or Centers being proposed. If your proposal is selected for award, funding for these costs will be provided directly to those Government Agencies via a MIPR or IACRO under the authority of the Economy Act.

7. Total Estimated Costs – Enter the total after subtracting items 6. And 7. From item 5.

8. Proposed Agreement Costs (if any): For Prime Contractors submitting proposals with Government Agencies or Centers as subcontractors, these are the costs associated with performance by the Government Agency. Identify the Government Agencies or Centers being proposed. If your proposal is selected for award, funding for these costs will be provided directly to those Government Agencies via a MIPR or IACRO under the authority of the Economy Act.