

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES 1   4
2. AMENDMENT/MODIFICATION NO. 01	3. EFFECTIVE DATE 08/03/2011	4. REQUISITION/PURCHASE REQ. NO. 4200392966	5. PROJECT NO. (If applicable)	
6. ISSUED BY NASA/Ames Research Center Acquisition Division M/S 241-1 Moffett Field, CA 94035-0001	CODE ARC	7. ADMINISTERED BY (If other than Item 6) See Block 6	CODE ARC	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(X) 9A. AMENDMENT OF SOLICITATION NO. NNA11392966R	
			(X) 9B. DATED (SEE ITEM 11) 07/14/2011	
			10A. MODIFICATION OF CONTRACT/ORDER NO.	
			( ) 10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			

**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 1 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 your 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)

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

CHECK ONE	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.
<input type="checkbox"/>	
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	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.)

1. The purpose of this amendment is to answer questions following the site tours conducted on 19 July 2011 at NASA Ames Research Center, and on 21 July 2011 at Dryden Aircraft Operations Facility.

2. This amendment also provides a revised Statement of Work (dated 28 July 2011); revised attachment J.4-6.1 (dated 28 July 2011); revised attachment J.7-9 (dated 28 July 2011); and revised attachment J.11-19 (dated 28 July 2011). These revised documents supercede those posted with the original solicitation.

Continued on next page....

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 (Type or print) MANUEL HERRADA		
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 02 August 2011

Block 14, Description of Amendment, Continued

3. Offerors shall sign acknowledgement of this amendment and any other amendments, and include them when submitting their proposals. All other terms remain unchanged. Solicitation closing date remains 15 August 2011 at 2:30 PM local time.

QUESTIONS AND ANSWERS:

Q: Re: NASA Ames location: Can the contractor use the 2-axis crane onsite or does the contractor need to secure NASA personnel to operate the crane?

A: See para. 4.4.2.1 of J.1 of revised SOW

Q: Re: NASA Ames location: Is the request for a burn permit required through NASA Ames or through the city? How difficult is it to secure a burn permit?

A: General burning is not permitted. Burning related to welding or torch work is permitted via the Ames permit process, described in para. D.16.1 of J.1

Q: Re: Dryden location: If necessary, can the door frame that enters the re-coating room be removed during insertion of chamber in room? If yes, are all costs for removal and reinstallation of this door frame the responsibility of the contractor?

A: Yes and Yes, see para. 4.1 of J.1

Q: Re: Dryden location: Is there a specific electrical ground somewhere for the chamber? If yes, is this the ground associated with the panel currently installed in the re-coating room or does another line need to be run from the mechanical/electrical room?

A: The chamber ground connection is a safety ground that independently ties the steel body to a building ground. This type of connection is required by code for any piece of metal over a given size to prevent items from electrically floating to dangerous potentials. This ground connection should be made according to City of Palmdale building code.

Q: The latest SOW refers to Attachment A regarding the critical lift plan and I have not been able to locate this attachment in any of the files. This attachment is mentioned in section 4.2.1 of the SOW. Can you please point me in the right direction?

A: The references have been corrected and are found in the revised SOW, dated 28 July 2011, posted with this amendment.

Q: Could NASA confirm that the contractor is not responsible for seismic analysis of the chamber itself (e.g. unsecured lid falling during earthquake).

A: The contractor is not responsible for seismic analysis of the chamber itself.

Q: Could NASA provide the full drawings (in their original file format) for download via an ftp site? (To date, only pdf versions of the drawings have been made available.)

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A: These will be provided post award. We are asking offeror's for a Relocation Plan with their proposal and not the installation design layout. The design layout is not due until 10 days after contract award. If we get the drawings sooner, we will post them. However, do not hold up your proposal awaiting potential early release of the full drawings.

Q: The SOW says "The Contractor shall demonstrate that the functionality and performance of MCF subsystems are unchanged after the move is completed." If there are problems during the functional and performance tests, how will NASA ensure they were caused by the move and not due to a PLC controller or software problem unrelated to the move?

A: The performance of the PLC is stable and there will be no modifications or upgrades to the PLC hardware or software before or during the relocation process, and to the extent possible, functionality and performance may be tested via manual step sequencing.

Q: Re: functional and performance tests: Is there an Acceptance Test Procedure the contractor must follow or should the Contractor originate a procedure which satisfies the criteria in Section 6 of the SOW?

A: The contractor should provide a test procedure, however the NASA/USRA test procedures have been provided as attachments J.12 and J.13

Q: Re: functional and performance tests: Does the performance test require coating of a test article? If so, will the test article be supplied by NASA?

A: The performance test does not require coating of a test article.

Q: Re: functional and performance tests: Is the Contractor required to perform the testing in J.13, "Mirror Coating Chamber Integrated System Test SSMOC-MCF-PRO-2300C?" If yes, will NASA make available the (5+) required test personnel for the functional and performance tests as described in J.13? Will the Contractor be required to subcontract to these individuals or are their services provided by NASA?

A: No. The contractor will only be required to perform a test that will demonstrate functionality as specified in Section 6.

Q: Re: functional and performance tests: Must the contractor provide all of the necessary test equipment as well as the test materials/consumables shown in 5.1 of J-13 or will NASA provide these items? (e.g. meters to demonstrate voltage and current provided by the power supply for the glow discharge system)

A: The government will provide the necessary test equipment.

Q: Re: functional and performance tests: Is the equipment capable of recording measurements to fulfill the Section 6 criteria or must the contractor provide its own test recording equipment? e.g. a measurement recording is requested for the "rate of rise <10mTorr in first 24 hours" for the roughing system.

A: The test procedure must have space to record the results manually, to be witnessed by a government representative.

Q: Can NASA provide the duration of each training course mentioned in item "C.4 Training" of the SOW and section 3.3 of J-13?

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A: Per para. C4 of J.1, the contractor must provide training for their employees. The government will not be providing training.

Q: Can NASA please provide the ??? drawings and documentation?

A: This question is not specific enough to answer.

Q: Page 3 of document 146736-SOL-001-009 appears incomplete. Could the completed version of this page please be provided?

A: We are unable to determine reference. Please specify an attachment number in order for us to answer this question.

Q: Does NASA have the original documentation on all welds?

A: See Attachments J.7.7 and J.7.8, provided with this Amendment.

Q: Can the contractor weld onto the base structure (white)?

A: This determination is for the contractor to assess and propose.

Q: Can NASA provide a dimensioned drawing of the chamber lid holder?

A: See attachment J.7.4a, provided with this Amendment.

Q: Is there a crating specification?

A: No. Crating shall be done IAW standard industry practices.

Q: Is there a drawing for the chamber lid support stand and a weight available?

A: Included as Attachment J.20 with this amendment is a drawing of the equipment stand. It does not include any weight information. Contracting Officer believes this should be sufficient information to develop a proposal and subsequent lifting plan.

Q: Is there any additional information to be provided in regards to the critical lift plan?

A: Nothing more besides what is in the latest Statement of Work, dated 28 July 2011, provided with Amendment 0001 to RFP.

-End-