

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE 1 OF 4 PAGES
2. AMENDMENT/MODIFICATION NO. 000002	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 420014514032	5. PROJECT NO. (If applicable)	
6. ISSUED BY NASA/Johnson Space Center Attn: Ryan Hancock/BH2 2101 NASA Parkway Houston TX 77058-3696	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(X)	9A. AMENDMENT OF SOLICITATION NO. NNJ15514032R
			(X)	9B. DATED (SEE ITEM 11) 12/01/2014
				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 \_\_\_\_\_ 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.)

The purpose of this Amendment 2 is to (1) provide Offerors with responses to questions received in regards to solicitation number NNJ15514032R, (2) revise Completion Form Template to clarify the template and correct the Period of Performance, and (3) to revise Attachment J-3 to correct an error.

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) Dana Altmon-Cary		
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED  16 Dec 2014

Response to Questions  
NNJ15514032R High Performance EVA Gloves  
Amendment 02

RFP Questions:

8. SPT worksheets for both prime and major subcontractor – columns I and J have some yellow shaded cells and the columns state they are auto fills for the worksheet. Those cells are either blank or contain a \$0 input. What are these cells to be used to autofill and with what information?

The SPT worksheet has been corrected to delete the auto-fill columns I and J. Please fill out each column for C and D where the “\$0.00” and “0” are placed.

9. LPT worksheets, both prime and major subcontractor:
  - a. Cell F2 is titled conversion factor. This is used to calculate hours in columns D and E. What is the conversion factor intended to be, i.e., what is it converting?

F2 conversion factor is critical for the worksheet. The conversion factor is the multiplier for the amount of hours that are proposed for each period. Period 1 is Feb 1 2015 to September 30 2015, and Period 2: Oct 1 2015 to July 31 2016.

- b. Columns I and J have yellow shaded cells that are intended to be worksheet autofills. For example, a number entry in cell I9 will auto populate in cell B9 for number of EP's in that labor category per contract year. What is the purpose of the autofill information if it simply populates the same number on another cell in the same worksheet?

When the Equivalent Personnel (EP) is entered in the autofill, it is multiplied by the conversion factor to give the total amount of hours for period 1 and period 2. By filling out the autofill template, it auto-populates the columns in gray. If you want to manually enter in the gray columns you are more than welcome to do so. The conversion factor and autofill template makes it easier and requires less numbers to input.

- c. Same basic question as in b. above for cell I2. An entry there auto populates in cell F2 on same worksheet. What is purpose of the auto fill cell I2?

When the Equivalent Personnel (EP) is entered in the autofill, it is multiplied by the conversion factor to give the total amount of hours for period 1 and period 2. By filling out the autofill template, it auto-populates the columns in gray. If you want to manually enter in the gray columns, you can do so. The conversion factor and autofill template makes it easier and requires less numbers to input.

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10. Section F.4 of the RFP states the period of performance will be Feb 1, 2015 through July 31, 2016. The Cost Template provided with the RFP, on both the prime and major sub "LPT" worksheet states CY1 as Feb 2015 to Sep 30 2015; and CY2 is Oct 1 2015 to Jun 30 2016, indicating an end date for pricing of Jun 30 2016 (17-months total) versus the RFP Section F.4 end date of July 31 2016 (18 months total). Should the costing template for CY2 be changed to reflect costing through July 2016, with a CY1 being 8-months and CY2 being 10-months?

The cost worksheets have been modified to reflect the accurate Period of Performance. Period 1 is from Feb 1 2015 – September 30 2015, and Period 2 is from October 1 2015 – July 31 2016.

#### Technical Questions

3. With regard to the Insulation requirement, SM6, it appears that the testing described will be performed by NASA using the deliverable Material Layer Stacks at an unspecified date. The specified test setup is unique to JSC and there is no box checked for the requirement in the verification matrix. Will NASA perform the insulation testing and if so, would the stacks be required prior to ATP+18 months specified in J.2?

The verification testing will be conducted by the Offeror. There is an error in the J.3 document verification matrix Req# SM6. The "T" box should be checked under the Verification Method for SM6. The Verification Notes describe how to conduct this test method. NASA will provide the [TBR] K-values at the Kick-off Meeting post contract award.

The Titan GHP system is a commercial product commonly found in materials research and test facilities within the Government, industry, and several universities. The Offerors are encouraged to partner with such facilities if they do not have a Titan GHP system in-house. If the use of NASA facilities and personnel are requested to conduct this testing, this should be stated in the proposal along with proposed need date for the testing, relative to ATP.

**2 Verification Matrix**

This section lists verification methods and notes for the HPEG system. Specific verification notes and verification methods (I=inspection, A=analysis, T=test and D=demonstration) have been included to give additional insight into the type and level of verification required for the HPEG system.

Req #	Description	Verification Method				Verification Notes
		I	A	T	D	
	2.1 Pressure and Leakage					
PL1	Operating Pressure				X	
PL2	Maximum Operating Pressure		X			
PL3	Structural Test Pressure				X	
PL4	Proof Pressure		X		X	
PL5	Ultimate Pressure		X	X		Testing or analysis of a subset of glove components is acceptable instead of testing an entire glove.
PL6	Maximum System Leakage Rate			X		
PL7	Maximum Bearing Leakage Rate			X		
PL8	Maximum Dusty Bearing Leakage Rate			X		Dust applied using one of the four methods described in the Bearing Dust Cycle Test Document (CTSD-ADV-1163). The verification shall be considered successful when leakage is measured and within limits at the completion of the test period.
	2.2 Structure and Mass					
SM1	Goal – Cycle Life					
SM2	Goal – Time between Required Maintenance					
SM3	Weight	X				Includes all HPEG system components for a single hand, including fasteners and seals.
SM4	Wrist Length	X				
SM5	Isometric Man Loads		X	X		A combination of test and analysis.
SM6	Insulation			X		Testing to be conducted using uncompressed 12"x12" material layer stacks of all unique glove sections in a Titan Guarded Hot Plate system at the temperatures and pressures specified. Refer to the Guarded Hot Plate Test document (AML-14-05-R1) for test setup. Verification shall be considered successful when all K-values are equal or lower than the [TBR] K-values specified.
SM7	Goal – Dust Migration					Refer to the "Abrasion Testing of Candidate Outer Layer Fabrics for Lunar EVA Space Suits" document and the CTSD-ADV-808 Phase VI Durability Testing document for additional information in regards to Dust Migration.