

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE

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2. AMENDMENT/MODIFICATION NO. <b>0002</b>	3. EFFECTIVE DATE <b>See Block 16C</b>	4. REQUISITION/PURCHASE REQ. NO. <b>4200513982</b>	5. PROJECT NO. (If applicable) <b>PCN 98812</b>
6. ISSUED BY CODE	<b>OP-ES</b>	7. ADMINISTERED BY (If other than Item 6) CODE	
<b>John F. Kennedy Space Center, NASA Procurement Office, OP-ES-A Kennedy Space Center, FL 32899</b>		<b>Same as block 6</b>	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)	9A. AMENDMENT OF SOLICITATION. <b>X NNK14513982R</b>
	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 ACKNOWLEDGEMENT 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)

**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)

**E. IMPORTANT:** Contractor   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 Amendment 0002 is to:

- A. Provide Government answers to potential bidder's questions, see attached.
- B. Incorporate changes to the solicitation as a result of responses to bidder questions, see attached.
- C. All other terms and conditions remain unchanged.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Sherry L. Gasaway</b>		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY <u>Sherry L Gasaway</u> (Signature of Contracting Officer)	<u>7/17/14</u>

**NNK14513982R – Refurbish Ground Cooling System (GCS), Pad 39B, PCN: 98812**

**A. ANSWERS TO BIDDERS QUESTIONS:**

1. **REFERENCE:** Drawing 79K39604 Sheet M-002, Refrigerant Replacement, R-124 Replacement, Note 6 and 7

**QUESTION:** Will hydrostatic testing and mechanical cleaning to Level 300 per the specifications require removal of driers, filters or other components to accomplish? Please confirm that the system is compatible to the introduction of water, acidic solutions, and solvents, and will not trap solutions for cleaning and drying operations per KSC-C-123H.

**RESPONSE:** Hydrostatic testing is only required for new or modified piping and components, not for existing to remain components. Cleaning of the R-134a closed loops will require removal of the drier and filter elements. The government can't confirm there are not traps or other points in the system that will make cleaning and drying requirements difficult. Contractor to work with their cleaning specialist to develop and submit a plan, for Government approval, during construction; addressing the overall system cleaning plan with special care for Level 300A cleaning of this complex closed loop systems following all project drawing, specification, and addendum requirements. See attached additional addenda item 10.

2. **REFERENCE:** Drawing 79K39604, Sheet M-003 and Reference Drawing 80K56129 Sheets 3 and 41.

**QUESTION:** Drawing 80K56129, existing configuration reflects 1" filters for A505233 and A505235. Contract Drawing 79K39604, Sheet M-003, Equipment Schedule, A505233 and A505235 reflects 1/4" filters. Please confirm 1/4" filters are to be installed. Please see attached pages from 80K56129 clouded in red.

**RESPONSE:** The equipment schedule on sheet M-003 had a typographical error for A505233 and A505235. The part number should be 79K80229-17, which would be a 1" filter. The appropriate vendor part number would be 24116-010. See attached additional addenda item number 9.

**B. INCORPORATE CHANGES INTO SOLICITATION**

(b) Addenda to Specification and Drawings:

9. Drawing 79K39604, Sheet M-003, EQUIPMENT SCHEDULE, MECH "A" NUMBER A505233 and A505235 revise SPEC / DWG NO. / MFR &PART NUMBER as follows:

From: 79K80229-1 / WINTEC AEROSPACE 24104-010

To: 79K80229-17 / VACCO Industries 24116-010

10. Specification 79K39605, Section 22 15 09.00 40 revise the sentences in Paragraph 1.4.2 as follows:

From: "R-134a systems in the Ground Cooling System shall be cleaned to level 300 in accordance to KSC-C-123J and these specifications."

To: "R-134a systems in the Ground Cooling System shall be cleaned to **Level 300A** in accordance to KSC-C-123J or ISO 14952 and these specifications."

From: "Level 300 is defined as follows:

Particle Size	Maximum Number of Particles per 0.1 square meter
<100	Unlimited (silting is not permitted)
100 to 250	93
>250 to 300	3
>300	0"

To: "**Level 300A** is defined in KSC-C-123J or ISO 14952-2"