

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE OF PAGES
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2. AMENDMENT/MODIFICATION NO. 01
 3. EFFECTIVE DATE 01/22/2013
 4. REQUISITION/PURCHASE REQ. NO. _____
 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE KSC
 NASA/John F. Kennedy Space Center
 Office of Procurement
 MAIL CODE OP
 KENNEDY SPACE CENTER FL 32899
 7. ADMINISTERED BY (If other than Item 6) CODE KSC
 NASA/Kennedy Space Center
 Office of Procurement
 MAIL CODE OP
 KENNEDY SPACE CENTER FL 32899

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 (x) 9A. AMENDMENT OF SOLICITATION NO. NNK12458702R
 x 9B. DATED (SEE ITEM 11) 12/20/2012
 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 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.
 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 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 attached

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) Jan Pirkle
 15B. CONTRACTOR/OFFEROR _____ 15C. DATE SIGNED _____ 16B. UNITED STATES OF AMERICA
 _____ (Signature of person authorized to sign) _____ (Signature of Contracting Officer)
 16C. DATE SIGNED 1/22/13

The purpose of this amendment is to incorporate new clauses pertaining to Government Furnished Equipment and answers questions submitted by potential offerors:

1. The RFP is hereby modified to add the following clauses to Section 2 – Addendum to 52.212-4, Contract Terms and Conditions:

52.245-1 Government Property (Apr 2012)

ITEM	QUANTITY	VALUE	AVAILABLE
Test Assembly 1 each Helium Test Panel: \$50K 1 each Fluids Test Panel: \$375K Misc. supporting hardware for both panels (external to panels): \$55K	1 total assembly	\$480K	4/18/13
Nitrogen Tetroxide (NTO/MON-3)	104 gallons	\$248K	At time of award
DOT 4BW, 500 psig MAWP Cylinders: 5 cylinders (2 x 120 gal, 2 x 55 gal, 1 x 30 gal) 2 each empty 55 gal and 1 each 120 gal cylinders (full of NTO) 1 each 120 gal and 1 each 30 gal	5 each	\$121K	At time of award 4/18/13
Control Systems, DAS and Software, Laptop and data recording <ul style="list-style-type: none"> • 1 laptop • 2 purge enclosures external to the test panels (1 for control system and 1 for the heat exchanger) 	3 each	\$10K	4/18/13
Water bath heat exchanger includes: 90 gallon steel cylinder, flex hoses, flex hose support fixture, pump, heater, and purge enclosure	1 each	\$2.5K	4/18/13

52.245-9 Use and Charges (Apr 2012)

2. The following is a list of questions and answers for the NTO Test Flow Support acquisition:

Question 1: Is this work intended to be performed at KSC, or can it be performed at another location?

Answer 1: The Statement of Work (SOW) allows for performance of the work at any location that meets the SOW requirements.

Question 2: Please clarify why NTO needs to be the test fluid and not a similar density fluid like HFE-7200 (which is a Freon-like fluid with much less hazard exposure).

Answer 2: NTO is the required the test fluid for this SOW effort. NASA will have already performed system level testing in advance with similar referee fluid as described.

Question 3: Please provide more information on the GFE water bath heat exchanger, and the GFE liquid separator that is not listed in the GFE list but is shown in Appendix 3 (unless it is part of the heat exchanger). Also, is the liquid trap cylinder listed in the options the same as the GFE liquid separator?

Answer 3: The Heat Exchanger consists of a 90 gallon insulated stainless steel cylinder, water circulation pump and 5.5 KW heater. Propellant conditioning is accomplished via transfer through convoluted stainless steel flex hoses which are submersed within the water. The liquid separator falls under #5 in the GFE list. The liquid trap cylinder is the same as the liquid separator shown in Appendix 3 of the SOW. See list of GFE added by FAR 52.245-1 above.

Question 4: Is KSC willing to work the SOW requirements with certain vendors so that we can reduce the cost of what is really needed? For instance, would it be possible for our supplier to supply the MON-3 from our own inventory to minimize the amount of additional propellant transport cost?

Answer 4: The government will supply the NTO (MON-3) per the SOW, however NASA would entertain evaluating other NTO (MON-3) sources that cost effectively meet the SOW requirements.

Question 5: Please confirm the secure area for testing is 750 ft².

Answer 5: Yes. See SOW 3.1 states "A secure area for test of at least 750sq ft. with limited access control...".

Question 6: Our facility has control access to the area via one doorway into the facility, and internal procedures to ensure the safety of personnel near the hazardous area. We can also provide limited physical access to the hazardous area, but without keycodes, locked cell entry, etc. Is this acceptable?

Answer 6: SOW 3.1 states “...with limited access control (control may be via physical access barriers and electronic /coded locks or personnel guard)” This is required to protect NASA GFE while stationed at contractor facilities and limit access to equipment to those involved in the operations. Therefore at a minimum the door access must be some form of lockable device (a standard door lock with key for entry is sufficient).

Question 7: Our supplier uses level B PPE with supplied air, which is adequate given our operating procedures, as opposed to full SCAPE gear.

Answer 7: SOW allows for “SCAPE or equivalent” that meets all contractor required safety rules to conduct the operations specified by the SOW.

Question 8: KSC needs to clarify which test equipment needs to be screened or covered for foreign national visitors.

Answer 8: Will be specified upon award.

Question 9: In reference to question #8 above, do the screening requirement for foreign nationals apply to all companies who employ foreign nationals?

Answer 9: Access will need to be protected for any foreign nationals that are on-site at the location chosen for tests.

Question 10: Please clarify the reason for a 20 torr vacuum pump requirement. If we’re talking about aspirating the propellant tanks, about 20 in Hg is required. ISP could provide DI water aspiration. We can also dry any tanks using a combination of filtered heated GN₂, and the vacuum oven capability (26 in Hg) that we do have. If a 20 torr vacuum pump is really required, it would need to be GFE.

Answer 10: SOW allows for alternative means of accomplishing the test if the requirements as written cannot be met. The pump option requested will be used only one time upfront on a “clean” system per SOW (system not yet exposed to any form of hypergol contamination) for this low end requirement. NASA would consider alternative levels using aspiration methods for the decontamination operations. Note that the vacuum level is to simulate a “clean” system that has been open to the vacuum of space then isolated and filled with propellant. The vacuum level for post-test decontamination can be to a higher level, but is not required per the SOW if the contractor has other means of decontaminating the system.

3. The date and time for receipt of proposals is extended to February 5, 2013, 3:00 p.m. est.