

2. AMENDMENT/MODIFICATION NO. 001	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 4200414807	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE NASA/Kennedy Space Center Office of Procurement, OP-ES Andrew Dennis Kennedy Space Center, FL 32899		7. ADMINISTERED BY (If other than Item 6) CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. NNK12414807R <input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) January 27, 2012 <input type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NO. <input type="checkbox"/> 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.)

The purpose of this amendment is to revise the Solicitation Specification, document the answers provided to questions received, and extend the proposal submission due date to March 9, 2012 .

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) Andrew S. Dennis Contracting Officer		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		 (Signature of Contracting Officer)	2/13/2012

The Government's responses to questions submitted on the Solicitation are contained within this amendment. The responses to questions shall not be construed as altering the requirements of the RFP except as specifically revised in this amendment.

1. Potential offerors are notified of the following revisions:

a) The attached Specification, "6000 PGIG Pressure Vessel Procurement Specification" dated January 20, 2012 (Rev 1) replaces the specification dated January 20, 2012 provided with the basic solicitation.

b) Specification, "6000 PSIG Pressure Vessel Procurement Specification" dated January 20, 2012 (Rev1) incorporates the following changes:

-Section 3.2.2.4

Added statement to allow for additional inspection openings if required by ASME code.

-Section 3.2.2.5

Changed MAWP to 6600 psi to be consistent with the design pressure in section 3.2.1.1

-Section 3.2.2.5.1

Changed requirement to use Grayloc style hub instead of KC159 hub.

-Section 3.2.2.5.2

Deleted the requirement to use KC160, KC155 and KC162 components. Identified the material type for the blind hub, clamp and seal.

-Section 3.2.3

Changed the number of cycles to 1500 to match normal operating conditions and operational life requirements.

-Section 3.3.5

Deleted note restricting the use of SA514 and SA517 material

-Section 7.1

Changed 5800 psi to 6000 psi to match normal operating conditions value.

-Figure 1

Revised interface connection details in "Nozzle Schedule" table

-Figure 2

Revised callout for nozzle connection details

2. The following received questions and the Government provided answers are shown below:

Question 1: As Noted In the Specs: materials designated SA514, SA517, or other alloys with substantially the same properties as T-1 steel (manufactured by United Steel Corporation) shall not be used in the manufacture of this vessel. What is NASA's objection to SA-517E material?

Answer 1: NASA has deleted the note restricting the use of SA514 and SA517 material in the attached revised Specification.

Question 2: Would you please provide the following Standards:

KSC-GP-425 Engr. Stds.

KSC-STD-E-0015 Marking

KSC-C-123 Surface Cleanliness

NASA-STD-5008 Protective Coating

NPR 6000.1 Packaging

Answer 2: These standards are available at the following website:

<https://standards.nasa.gov/public>

Question 3: Nozzle drawings are requested from page 11 of 26 (KC167-24 and KC160-8) for additional details

Answer 3: Additional vessel connection details have been added in Figure 1 and Figure 2 of the attached revised specification.

Question 4: Is there a required or minimum length for nozzle protrusions (N1 and N2) beyond the vessel?

Answer 4: Section 3.3.1.7 specifies a minimum of 18 inches.

Question 5: Under Specification, 3.2.2.1: Is it acceptable for the vessel horizontal length to exceed 30 ft by 12" to 24"?

Answer 5: Yes, the overall length can be changed if necessary for a more efficient design, but it should not exceed standard shipping dimensions.

Question 6: Under Specification, 3.2.2.1: Is the 8 ft vertical height restriction for each vessel or for the total stacked height?

Answer 6: 8 ft per vessel

Question 7: Under Specification, 3.2.2.1: Is it acceptable for the total stacked height to exceed 8 ft by 12" to 24"?

Answer 7: Yes, the overall height can be changed if necessary for a more efficient design, but it should not exceed standard shipping dimensions.

Question 8: Under Specification, 3.2.2.4: One additional inspection opening will be required for vessels with an ID less than or equal to 36".

Answer 8: An additional inspection opening is acceptable if required by code. The connection style shall be the same as the other vessel connections. The attached revised Specification clarifies this issue under 3.2.2.4.

Question 9: Under Specification 3.2.2.5.1: Is the entire nozzle to be stainless steel or just the butt welded hub KC159?

Answer 9: The nozzle is not required to be stainless steel only the hub.

Question 10: Under Specification 3.2.2.5.2: Are the matching blind hubs, clamps and bolting to also be stainless steel?

Answer 10: Yes. See the attached revised Specification under 3.2.2.5.2.

Question 11: Is it acceptable for the supplier to quote hub sets not listed in this standard which meet the design pressure and temperature requirements?

Answer 11: Yes, higher rated hubs can be used that are not listed in GP-425.

Question 12: Under Specification 3.2.3: This section requires vessel to be designed for 2000 cycles. This is in conflict with 3.2.1.4 and 3.2.1.5 which require 50 cycles per year for 30 years or 1500 cycles. Please confirm either 1500 or 2000 cycles.

Answer 12: 1500 cycles. The attached revised Specification fixes this inconsistency.

Question 13: Under Specification 3.3.2.2 and Specification 4.2: Is standard radiography with film acceptable in lieu of digital radiography?

Answer 13: No, Digital radiography is required.

Question 14: Are the flanges referred to "Grayloc"?

Answer 14: The KC159 and KC160 flanges are Grayloc Brand. The attached revised Specification clarifies this matter under 3.2.2.5.1.

Question 15: Is there more detail (drawing, pictures, or written) on the nozzles?

Answer 15: The nozzles are part of the pressure vessel design. Section 3.3.1.7 gives direction on the minimum length of the nozzle. Section 3.2.2.5.1 describes the connection type. Any other details should be determined by the pressure vessel manufacturer.

Question 16: Is it acceptable to send the quote by e-mail or is it seal bid?

Answer 16: Proposals shall be submitted to the Contracting Officer, Mr. Andrew Dennis, National Aeronautics and Space Administration, Kennedy Space Center, Mail Code: OP-ES, Kennedy Space Center, Florida 32899. Proposals may be submitted by mail or electronic submission to Andrew.S.Dennis@nasa.gov.

3. The proposal submission due date is extended to March 9, 2012.

4. All other terms and conditions of NNK12414807R remain unchanged.