

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT I D CODE	PAGE OF PAGES	
				1	5
2. AMENDMENT/MOD NO. 5	3. EFFECTIVE DATE 08/01/2011	4. REQUISITION/PURCHASE REQ. NO. 4200373396		5. PROJECT NO	
6. ISSUED BY NASA Ames Research Center Acquisition Division Mailstop 213-13 Moffett Field, CA 94035-1000		CODE JAC	7. ADMINISTERED BY Ken Kitahara (650) 604-3717		CODE JAC
8. NAME AND ADDRESS OF CONTRACTOR (No. Street, County, State and ZIP Code)  ALL OFFERORS			(9)	9A. AMENDMENT OF SOLICITATION NO NNA1173396R	
			<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11) 7/8/11	
			(10)	10A. MOD. OF CONTRACT/ORDER No	
CODE	FACILITY CODE		<input type="checkbox"/>	10B. DATED (SEE ITEM 13)	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<p>The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers 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:</p> <p>(a) By completing Items 8 and 15, and returning one (1) copy 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 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.</p>					
12. ACCOUNTING AND APPROPRIATION DATA (if required)					
N/A <span style="float: right;">Financial Management</span>					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
<input type="checkbox"/> 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"/> 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)					
IMPORTANT: Contractor IS required to sign this document and return 5 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
Subject: Steam Vacuum System NOx Emission Reduction System					
This amendment is issued to correct L.17(a)A., Technical Approach (Subfactor), and M.3(b)(1)A., Technical Approach (Subfactor).					
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		
			KENNETH KITAHARA		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED	
(Signature of person authorized to sign)				Aug. 1, 2011	
			(Signature Of Contracting Officer)		
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE		30-105		STANDARD FORM 30 (REV. 10-83) ES Prescribed by GSA FAR (48 CFR)	

Accordingly,

1. L.17(a)A., Technical Approach (Subfactor), is revised (as highlighted) to read as follows:

A. **Technical Approach (Subfactor):** The Statement of Work included in this solicitation serves as the Government’s baseline requirement (Base Period (CLIN 0001) and Option 1 (CLIN 0002). The proposal must demonstrate that the offered items(s)/services(s) meet the baseline requirement. The technical acceptability will be rated based on a met/unmet basis, with assigned ratings of Acceptable (A), Potentially Acceptable (PA), or Unacceptable (U).

The Government baseline requirements listed in the following table must be met with a rating of Acceptable in order to be considered technically acceptable:

Government Baseline Requirement	All of the following must be met with a rating of Acceptable:
<p>Refer to Section C, <b>DESCRIPTION/SPECIFICATION/STATEMENT OF WORK</b></p>	<ul style="list-style-type: none"> <li>• The offeror shall demonstrate prior to contract award that they/subcontractor(s) are currently licensed to perform work within the state of California. The contractor/ subcontractor shall provide copies of their a) California A. General Engineering contractor license, b) California C 10 Electrical contractor license, &amp; c) California C 21 Building moving/ Demolition Contractors license.</li> <li>• The offeror shall provide “U” stamp welding certification.</li> <li>• The offeror shall provide system life cycle cost including cost per unit pound of NOx that is abated:             <ul style="list-style-type: none"> <li>▪ <b><u>Maintain the chemical usage at or below the following levels:</u></b> <ul style="list-style-type: none"> <li>▪ <b><u>36% H2SO4 by weight equal to or less than 296.3 gal/day at an assumed cost of \$2.58/gal.</u></b></li> <li>▪ <b><u>25% NaClO2 by weight equal to or less than 1028 gal/day at an assumed cost of \$1.70/gal</u></b></li> <li>▪ <b><u>30% NAOH by weight equal to or less than 175.9 gal/day at an assumed cost of \$2.91/gal</u></b></li> <li>▪ <b><u>45% NaHS by weight equal to or less than 334.2gal/day at an assumed cost of \$1.00/gal</u></b></li> </ul> </li> <li>▪ <b><u>Provide supporting calculations for the chemical usage proposed.</u></b></li> </ul> </li> <li>• The offeror shall provide a management plan that is appropriate for this requirement. Plan shall include:             <ul style="list-style-type: none"> <li>▪ Schedule of work including procurement of equipment.                 <ul style="list-style-type: none"> <li>▪ A Gantt chart that provides</li> </ul> </li> </ul> </li> </ul>

	<p>information on duration, beginning and end dates for the different task.</p> <ul style="list-style-type: none"> <li>▪ Gantt chart shall span the whole period of performance from notice to proceed to period of commissioning the facility.</li> <li>▪ Expenditure vs. time outlook throughout the project (Burn Rate)</li> </ul> <ul style="list-style-type: none"> <li>• Provide sub contractors teaming arrangement supported w/letters of intent to perform the work. This applies for at minimum the following disciplines: Electrical, NOx manufacturer/ designer, Demolition, and Mechanical sub contractors.</li> <li>• The offeror shall provide a work plan both for construction (CLIN 0001) and demolition (CLIN0002). The work plan both for construction and demolition shall include:             <ul style="list-style-type: none"> <li>▪ Identification of all risks in implementing the work plan and potential mitigations to the risks</li> <li>▪ Implementation of all safety and regulatory elements</li> <li>▪ Demolition plan that details the following:                 <ul style="list-style-type: none"> <li>▪ Draft Procedure for demolition of the existing foundations</li> <li>▪ Draft Procedure for the demolition of the existing NOx system.</li> </ul> </li> </ul> </li> </ul>
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**2. M.3(b)(1)A., Technical Approach (Subfactor) (as highlighted) is revised to read as follows:**

**A. Technical Approach (Subfactor):** The Statement of Work included in this solicitation serves as the Government’s baseline requirement. The proposal must demonstrate that the offered items(s)/services(s) meet the baseline requirement. The technical acceptability will be rated based on a met/unmet basis, with assigned ratings of Acceptable (A), Potentially Acceptable (PA), or Unacceptable (U).

**The Government baseline requirements listed in the following table must be met with a rating of Acceptable in order to be considered technically acceptable:**

Government Baseline Requirement	All of the following must be met with a rating of Acceptable:
Refer to Section C, DESCRIPTION/SPECIFICATION/ STATEMENT OF WORK	<ul style="list-style-type: none"> <li>• The offeror shall demonstrate prior to contract award that they/subcontractor(s) are currently licensed to perform work within the state of California. The contractor/ subcontractor shall provide copies of their a) California A. General Engineering contractor license, b) California C 10 Electrical contractor license, &amp; c) California C 21 Building moving/ Demolition Contractors license.</li> <li>• The offeror shall provide “U” stamp welding certification.</li> </ul>

	<ul style="list-style-type: none"> <li>• The offeror shall provide system life cycle cost including cost per unit pound of NOx that is abated:             <ul style="list-style-type: none"> <li>▪ <u>Maintain the chemical usage at or below the following levels:</u> <ul style="list-style-type: none"> <li>▪ <u>36% H2SO4 by weight equal to or less than 296.3 gal/day at an assumed cost of \$2.58/gal.</u></li> <li>▪ <u>25% NaClO2 by weight equal to or less than 1028 gal/day at an assumed cost of \$1.70/gal</u></li> <li>▪ <u>30% NAOH by weight equal to or less than 175.9 gal/day at an assumed cost of \$2.91/gal</u></li> <li>▪ <u>45% NaHS by weight equal to or less than 334.2gal/day at an assumed cost of \$1.00/gal</u></li> </ul> </li> <li>▪ <u>Provide supporting calculations for the chemical usage proposed.</u></li> </ul> </li> <li>• The offeror shall provide a management plan that is appropriate for this requirement. Plan shall include:             <ul style="list-style-type: none"> <li>▪ Schedule of work including procurement of equipment.                 <ul style="list-style-type: none"> <li>▪ A Gantt chart that provides information on duration, beginning and end dates for the different task.</li> <li>▪ Gantt chart shall span the whole period of performance from notice to proceed to period of commissioning the facility.</li> </ul> </li> <li>▪ Expenditure vs. time outlook throughout the project (Burn Rate)</li> </ul> </li> <li>• Provide sub contractors teaming arrangement supported w/letters of intent to perform the work. This applies for at minimum the following disciplines: Electrical, NOx manufacturer/ designer, Demolition, and Mechanical sub contractors.</li> <li>• The offeror shall provide a work plan both for construction (CLIN 0001) and demolition (CLIN0002). The work plan both for construction and demolition shall include:             <ul style="list-style-type: none"> <li>▪ Identification of all risks in implementing the work plan and potential mitigations to the risks</li> <li>▪ Implementation of all safety and regulatory elements</li> <li>▪ Demolition plan that details the following:                 <ul style="list-style-type: none"> <li>▪ Draft Procedure for demolition of the existing foundations</li> <li>▪ Draft Procedure for the demolition of the existing NOx system.</li> </ul> </li> </ul> </li> </ul>
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This subfactor’s acceptability evaluation will be based on a met/unmet basis, with assigned ratings of Acceptable (A), Potentially Acceptable (PA), or Unacceptable (U).

**Definition of Technical Acceptability Ratings**

Acceptable (A)	Met rating for this aspect of the proposal.
*Potentially Acceptable (PA)	After the initial evaluation, the rater anticipates additional information could be provided by an offeror during discussions would result in a proposal rating of Technically Acceptable (“met”) for this technical aspect of the

	proposal.
Unacceptable (U)	Unmet rating and failure for this aspect of the proposal.

\*A proposal is rated “Potentially Acceptable” when after the initial evaluation, the rater anticipates additional information that could be provided by an offeror during clarifications or discussions would result in a proposal rating of Technically Acceptable (“met”). The offeror will need to revise or further explain their proposal. If, upon review of the new or revised information, the proposal does not meet the government’s requirements, a “Technically Unacceptable” rating may be warranted. **Although an offeror may receive a rating of “Potentially Acceptable,” it does not guarantee that discussions will be held or that the offeror will automatically be included in the competitive range if discussions are held.**

**3. The due date for the receipt of proposals remains unchanged.**

All other terms and conditions remain unchanged and in full force and effect.

NOTHING FOLLOWS  
 END OF AMENDMENT NUMBER FIVE (5)