

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. M0003		3. EFFECTIVE DATE See Block 16C	1 3
6. ISSUED BY US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP TWFN-5E03 WASHINGTON DC 20555-0001		4. REQUISITION/PURCHASE REQ. NO. ZEROREQ-RES-17-0149	5. PROJECT NO. (If applicable)
CODE NRCHQ		7. ADMINISTERED BY (If other than Item 6)	CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) BATTELLE MEMORIAL INSTITUTE ATTN JACOB NOFSINGER 505 KING AVENUE COLUMBUS OH 432012696		(x) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE 007901598 FACILITY CODE		X 10A. MODIFICATION OF CONTRACT/ORDER NO. GS-00F-084CA NRC-HQ-60-16-T-0001	10B. DATED (SEE ITEM 13) 03/30/2016

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 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)

N/A

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:
X	D. OTHER (Specify type of modification and authority) 52.212-4-CONTRACT TERMS AND CONDIITONS-COMMERCIAL ITEMS (FEB 2012), (c) Changes.

E. IMPORTANT: Contractor is not. is required to sign this document and return _____ 1 _____ 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 modification is to make within scope changes to the Statement of Work (SOW) under Section A.5, at no cost impact. Specifically, SOW Sections 4.1.2, 5, and 6 are hereby deleted in its entirety and replaced as shown on pages 2 and 3 of the modification.

Total Obligated Amount: \$175,325.00 (Unchanged)
 Total Ceiling Amount: \$175,325.00 (Unchanged)
 Period of Performance: 04/01/2016 to 07/31/2017 (Unchanged)

All other terms and conditions remain the same.
 Period of Performance: 04/01/2016 to 07/31/2017

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A; as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Kevin Heydt, Contracts Manager		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SHARLENE M. MCCUBBIN	
15B. CONTRACTOR/OFFEROR <i>Kevin Heydt</i> (Signature of person authorized to sign)	15C. DATE SIGNED 4 April 2017	16B. UNITED STATES OF AMERICA <i>Sharlene McCubbin</i> (Signature of Contracting Officer)	16C. DATE SIGNED 4/5/2017

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Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

MAY 12 2017

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

ADM002

4.1.2 xLPR Code Application Support

The contractor shall provide technical support by assisting the NRC in the application of the xLPR code. As part of this task, the contractor shall present to the NRC staff on the methodologies used to develop the COD (axial and circumferential cracks) and crack stability (axial and circumferential cracks) modules. The presentation shall include an overview of the technical basis of each module, the methods used to develop the COD and crack stability modules, how the modules are implemented in xLPR and limitations with each module. The presentation shall also include some discussion about the assumptions used and uncertainties associated with the modules and recommendations for performing sensitivity studies to investigate drivers for uncertainty in xLPR code results. The goal of the sensitivity studies is to identify which models and input parameters have the greatest impact on the overall results and contribute most significantly to uncertainty in xLPR code results. The deliverable from this task shall be the presentation to NRC staff and PowerPoint slides. The presentation will take place at NRC Headquarters in Rockville, Maryland.

5. Reporting Requirements

Monthly Letter Status Report (MLSR)

The contractor shall provide a Monthly Letter Status Report which consists of a technical progress report and financial status report. This report will be used by the Government to assess the adequacy of the resources proposed by the contractor to accomplish the work contained in this SOW and to provide status of contractor progress in achieving activities and producing deliverables. The report shall include order summary information, work completed during the specified period, milestone schedule information, problem resolution, travel plans, and staff hour summary. The MLSR shall be submitted to the NRC COR by the 20th of the month following the month to be reported with copies provided to the following individuals and resources:

- 1) Bruce Lin: bruce.lin@nrc.gov
- 2) Michael Benson: michael.benson@nrc.gov
- 3) RES Resource: RESDEMLSR.resource@nrc.gov
- 4) Office of Administration/Acquisition Management Division:
ContractsPOT.Resource@nrc.gov

6. Deliverables/Milestones Schedule

The acceptance criteria for each of the below deliverables shall be that they contain all of the required information.

Section #	Deliverable	Due Date	Format	Submit
4.1.2 xLPR Code Application Support	Presentation on COD and stability modules	15 months from date of task order award	PowerPoint Slides	COR
4.2.1 Update Fracture Codes	Updated versions of NRCPipe and NRCPipes codes	12 months from date of task order award	N/A	COR
4.2.2 Update Pipe Fracture Encyclopedia CD-ROM Set	Updated Pipe Fracture Encyclopedia CD-ROM Set	12 months from date of task order award		COR
5. Reporting Requirements	Monthly Letter Status Report	20 th calendar day of the following month	MS Word or PDF	COR