

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		BPA NO.	1. CONTRACT ID CODE	PAGE 1 OF 4
2. AMENDMENT/MODIFICATION NO. M012	3. EFFECTIVE DATE See block 15c	4. REQUISITION/PURCHASE REQ. NO. RES-13-199 Dated: 02/28/2013	5. PROJECT NO (if applicable)	
6. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Aracelis Perez-Ortiz Mail Stop: TWB-01-B10M Washington, DC 20555	CODE 3100	7. ADMINISTERED BY (if other than Item 6) U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop: TWB-01-B10M Washington, DC 20555	CODE 3100	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) UNIVERSITY OF TEXAS AT AUSTIN 101 EAST 27TH STREET STE 4308 AUSTIN TX 787121500		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO NRC-04-09-134 10B. DATED (SEE ITEM 13) 09-01-2009		
CODE 170230239	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 _____ 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 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) B&R: 2013-60-17-6-161 JC: N6828 BOC: 252A AppNo.: 31X0200
FAIMIS: 131478 DUNS: 170230239 Obligated: \$10,000.00
NAICS: 541712 PSC: R499

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(X)	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)
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 52-243-2 Changes -Cost Reimbursement (AUG 1987) and Mutual Agreement of the Parties
	D. OTHER (Specify type of modification and authority)

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)
*****Refer to page 2 for modification details.*****

Contract Ceiling: \$430,312.00 (Changed)
Total Obligated Amount: \$400,246.00 (Changed)
Period of Performance: 09/01/2009 - 12/31/2013 (Unchanged)

All other terms and conditions under this contract remain unchanged.

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) David Hawkins, Associate Director	15B. CONTRACT DATE 5-1-2013	15C. DATE SIGNED 5-1-2013	15D. UNITED STATES OF AMERICA BY [Signature] (Signature of Contracting Officer)	15E. DATE SIGNED 4/18/2013
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Donald King Contracting Officer		16B. DATE SIGNED		

NSN 7540-01-152-8070
PREVIOUS EDITION NOT USABLE

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA - FAR (48 CFR) 53.242

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

MAY 07 2013

ADM002

The purposes of this contract modification are:

1. to incorporate additional work under Task 8 into the contract increasing the level of effort by 2.5 staff-months, thereby increasing the ceiling amount by \$40,066.00 from \$390,246.00 to \$430,312.00;
2. to provide incremental funding in the amount of \$10,000 thereby increasing the obligated amount from \$390,246.00 to \$400,246.00;
3. to revise the deliverables schedule to extend the due date for the deliverable under Task 5 at no additional cost to the government and to incorporate additional deliverables under Task 8.
4. to revise the travel section in accordance to the work requested under Task 8; and
5. to include Sapna Hurd, Management Analyst, RES, as an recipient of the deliverables under this contract.

Accordingly, the following changes are hereby made:

Section B.3 CONSIDERATION AND OBLIGATION – COST REIMBURSEMENT (JUN 1988) ALTERNATE I (JUN 1988), paragraphs (a) and (b) are deleted in its entirety and replaced with the following:

- "(a) The total estimated cost to the Government for full performance under this contract is \$430,312.00.
- (b) The amount presently obligated by the Government with respect to this contract is \$400,246.00"

Section C entitled "DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK" is revised to incorporate the changes below:

- a. Section IV REQUIREMENTS, Task 8, is revised to read as follows:

Task 8 Develop a technical white paper that describes recommendations for implementation of site-specific soil PSHA (Approach 3 from NUREG/CR-6728). Provide a technical presentation at NRC headquarters describing the results of this task.

Develop a technical white paper that quantitatively evaluates the industry-proposed framework for incorporating parametric variability and epistemic uncertainty into site response analysis (Task 4). This evaluation shall address the effect of uncertainty on final soil hazard curves developed using Approach 3 from NUREG/CR-6728 (Task 8). Summarize the results in a draft white paper. After receiving review comments from NRC staff, finalize the white paper. NRC comments are to be provided within 30 days of the submittal of the draft white paper.

b. Section IX DELIVERABLES/SCHEDULES AND/OR MILESTONES, is revised to read as follows:

Related Task	Deliverable Name	Original Due date	Revised due date
1	EQL-FD modification to STRATA	December 2009 – exact date TBD	Completed
1*	Revised documentation for program	December 2009 – exact date TBD	Completed
2	Site-specific AF predictive model for STRATA	Spring 2010 – exact date TBD	Completed
2*	Documentation for the Model	Spring 2010 – exact date TBD	Completed
3	Modified RVT site response software	Summer 2010 – exact date TBD	Completed
3	One day training session at NRC HQ	February 1, 2013	Completed
4*	White paper on incorporating parametric variability in sire response analyses	Fall 2010 – exact date TBD	Completed
5*	Final White paper on comparison of 1-D and 2-D simulations	December 31, 2012	July 30, 2013
6	Presentation at NRC on Tasks 4 and 5	February 1, 2013	Completed
7*	Report on modeling variability	December 2012 (draft)	Completed
7	Presentation at the NRC on the research report	February 1, 2013	Completed
8*	White paper on implementation of Approach 3	December 2012 (draft)	Completed
8	Final Presentation at NRC	February 1, 2013	Completed
9	Draft White Paper: Evaluation of Site Response Framework	N/A	August 31, 2013
9	Final White Paper: Evaluation of Site Response Framework	N/A	November 15, 2013
Section F.4 and F.5 of the terms and conditions	Monthly technical and financial status report	By the 20 th of each month	

*For each of the white papers and documentation reports, the contractor shall provide the NRC a draft version of these documents for review and comments. The NRC will have 5 business days to review the document and provide feedback to the contractor to be incorporated into these reports.

c. Section X MEETINGS AND TRAVEL, is revised to incorporate the following:

Location	Qty of Trips	Qty of days per trip	Qty of people
NRC Headquarters	1 (Task 8)	2	1 person (PI)

It is expected that the PI will travel from the Contractor location to NRC Headquarters for a duration of two days. All travel must be in compliance with US Federal Travel Regulations (FTR).

Section F.5 entitled "PLACE OF DELIVERY – REPORTS (JUN 1988)" is revised to incorporate paragraph (e) below:

(e) sapna.hurd@nrc.gov

All other terms and conditions under this contract remain unchanged.