


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT D CODE		PAGE OF PAGES	
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2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
M0006		See Block 16C		ZEROREQ-RES-18-0087			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
		NRCHQ				NRCHQ	
US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP TWFN-5E03 ATTN ROB ROBINSON 301-415-0728 WASHINGTON DC 20555-0001				US NRC - HQ ACQUISITION MANAGEMENT DIVISION MAIL STOP TWFN-5E03 WASHINGTON DC 20555-0001			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
ENERGY RESEARCH INC ATTN MOHSEN KHATIB-RAHBAR PO BOX 2034 ROCKVILLE MD 20847				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO. GS23F0110M NRC-HQ-60-14-T-0001			
				10B. DATED (SEE ITEM 13) 06/09/2014			
CODE 621211259		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended <input type="checkbox"/> 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)							
See Schedule							
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).						
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-3						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> 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 modification is to extend the period of performance end date from 6/30/2018 to 6/8/2019.							
Accordingly, Section A.6 is replaced in its entirety with the following:							
"A.6 NRCF032 TASK/DELIVERY ORDER PERIOD OF PERFORMANCE (SEP 2013) This order shall commence on June 9, 2014 and will expire on June 8, 2019."							
Period of Performance: 6/9/2014 - 6/8/2019 (changed) Total Order Ceiling: \$359,468.36 (unchanged) Total Obligated Amount: \$329,468.00 (unchanged) Continued ...							
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)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				RICHARD W. ROBINSON			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)						03/01/2018	
				(Signature of Contracting Officer)			

NAME OF OFFEROR OR CONTRACTOR
ENERGY RESEARCH INC

ITEM NO. (A)	SUPPL ES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	See attached pages for specific details regarding this modification. All other terms and conditions remain unchanged. Period of Performance: 06/09/2014 to 06/08/2019				

Specific Changes are as Follows:

1. Section 1.6.1 “Services/Deliverables” table is deleted and replaced with the following:

	Deliverable	Target Dates*
Task 1	0001A: Revised MELCOR model calculation notebook capturing changes made to support low power and shutdown modeling	Complete
	0001B: Letter report documenting shakedown analyses of revised model	Complete
	0001C: Revised MELCOR model	Complete
Task 2	0002AA: Draft calculation matrix to support probabilistic modeling	Complete
	0002AB: Draft letter report describing completed analyses that support probabilistic modeling	Complete
	0002AC: Final letter report describing completed analysis that support probabilistic modeling	Complete
	0002BA: Draft calculation matrix to support accident progression timing and release categorization	Complete
	0002BB: Draft letter report describing completed analyses that support accident progression timing and release categorization	Complete
	0002BC: Final letter report describing completed analysis that support accident progression timing and release categorization	Complete
Task 3	0003CA: Complete bridge tree development; provide documentation and logic model	Complete
	0003CB: Complete plant damage state tree development; provide documentation and logic model	Complete
	0003CC: Complete plant damage state binning; provide documentation	Complete
	0003CD: Complete representative sequence selection	Complete
	0003CE: Complete containment event tree development; provide documentation and logic model	Complete
	0003CF: Complete overall model quantification and development of release categories and source terms for offsite consequence analysts; provide overall logic model	03/30/2018
	0003CG: Complete overall documentation of work, including characterization of uncertainty	05/18/2018
Task 4	0004A: Support discussions, briefings, and input requests associated with the integrated site risk model's use of Level 2 LPSP inputs	Varies
	0004B: Provide a written summary of the activities related to integrated modeling	6/8/2019

*target dates are contingent upon the progress of the overall Level 2 PRA project, which includes components of work being performed outside of the scope of this contract. As such, the target dates are expected to serve as guidelines to ensure all contract deliverables are completed prior to the period of performance end date. However, the target dates for intermediary subtasks are ultimately subject to the direction of the COR and do not necessarily

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require contract modification as long as the overall scope of work is on schedule to be completed by the period of performance end date.

[END of M0006]