

2. AMENDMENT/MODIFICATION NO. M002	3. EFFECTIVE DATE See block 15c	4. REQUISITION/PURCHASE REQ. NO. RES-12-386	5. PROJECT NO. (if applicable)
8. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Adelis M Rodriguez Mail Stop: TWB-01-B10M Washington, DC 20555	CODE 3100	7. ADMINISTERED BY (if other than Item 8) 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) ENERGY RESEARCH, INC. ATTN: TRACEY MULLINIX 6167 EXECUTIVE BLVD. ROCKVILLE MD 208523901	(X) 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-HQ-11-C-04-0044 NRC-HQ-12-T-04-0002 10B. DATED (SEE ITEM 13) 01-19-2012
CODE 621211259 FACILITY CODE	X

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) Obligates: \$11,206.59 B&R: 2012-60-11-R-710 JOB: F6037
BOC: 252A Approp.: 31X0200 FAIMIS: 123750
DUNS: 621211259 NAICS: 541330 PSC: AG53

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 data, 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:
D. OTHER (Specify type of modification and authority) Bilateral Agreement FAR 43.103(a)

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 add additional work to the task order, thereby increasing the obligated amount task order ceiling by \$11,206.59 from \$109,836.02 to \$121,042.61.
See following pages for details.

All other terms and conditions remain the same.

Total contract ceiling: \$121,042.61 (changed)
Total obligated amount: \$121,042.61 (changed)
Period of performance: 1/19/2012-1/18/2013 (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) MOHSEN KHATIB RAHBAR President	15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Adelis M Rodriguez
15B. CONTRACTOR OFFEROR <i>[Signature]</i> (Signature of person authorized to sign)	15C. DATE SIGNED 9/20/12
15B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer)	15C. DATE SIGNED 9/20/12

SUNSI REVIEW COMPLETE

TEMPLATE - ADM001

SEP 21 2012

ADM002

The purpose of this modification is to add additional work to the task order, thereby increasing the obligated amount task order ceiling by \$11,206.59 from \$109,836.02 to \$121,042.61. Accordingly, the task order is modified as follows:

1. Paragraph (a) of section A.1 entitled: "Consideration and Obligation – Cost Plus Fixed Fee (AUG 2011) is revised to read as follows:

(a) The total estimated cost to the Government for full performance of this contract is \$121,042.61, of which the sum of \$114,192.84 represents the estimated reimbursable costs, and of which \$6,849.77 represents the fixed-fee.

2. Section III of the statement of work would be modified to add the following task:

Task 4: Presentation for the Program Review Group -5 (PRG) meeting

The contractor shall prepare a power point presentation to include:

- Comparison of MELCOR results with Experimental data for the pre-ignition test of 6kW and 10kW.
- Comparison of MELCOR results with Experimental data for the ignition test of 15kW with sensitivity cases

The presentation is due to the NRC not later than September 24th, 2012. If needed, the NRC will submit comments to the contractor no later than October 1st, 2012. If comments are provided by the NRC, the contractor shall provide the final presentation incorporating NRC comments incorporated, no later than October 8th, 2012.

In addition the contractor shall:

- Conduct a pre-brief presentation at the NRC, not later than September 24, 2012.
- Be available for a conference call during the PRG-5 meeting October 16-17, 2012.
- Provide technical support to answer questions about the presentation and/or Reports after the PRG meeting and after Organization for Economic Development (OECD)-participants review the final report.

All other terms and conditions remain unchanged.