

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO

1. CONTRACT ID CODE

PAGE

OF PAGE

1

3

2. AMENDMENT/MODIFICATION NO.

M001

3. EFFECTIVE DATE

SEP 21 2007

4. REQUISITION/PURCHASE REQ. NO.

RES-06-078

5. PROJECT NO.(if applicable)

6. ISSUED BY

CODE

3100

U.S. Nuclear Regulatory Commission
Div. of Contracts
Attn: Michael Mills, CMB2
Mail Stop T-7-I-2
Washington, DC 20555

7. ADMINISTERED BY (If other than item 6)

CODE

3100

U.S. Nuclear Regulatory Commission
Div. of Contracts
Mail Stop T-7-I-2

Washington, DC 20555

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

ENERGY RESEARCH INC

6167 EXECUTIVE BLVD

ROCKVILLE MD 208523901

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
GS23F0110M DR-04-06-078I

10B. DATED (SEE ITEM 13)

CODE

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)

B&R: 77G-15-11A-296 Job Code: N7313 BOC: 252A
31X0200 Obligate \$72,353.80 FFS No. OIP-07-318

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).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority) 52.243-3 Changes---Time & Materials of Labor Hours

X

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return ² _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This modification obligates \$72,353.80 and increases the ceiling to \$240,706.20.
This modification incorporates language to the statement of work.

Refer to page 2 for the details of this modification.

DUNS No. 621211259

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

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Stephen Pool
Contracting Officer


15B. CONTRACTOR OFFICER

John Farris-Rul
(Signature of person authorized to sign)

15C. DATE SIGNED

9/21/07

16B. UNITED STATES OF AMERICA

BY 
(Signature of Contracting Officer)

16C. DATE SIGNED

9/18/07

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

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

OCT 16 2007

STANDARD FORM 10-83
Prescribed by GSA (48 CFR) 53.243

ADM002

The purpose of this bilateral modification is to: (1) incorporate the attached statement of work for a within-scope change, and (2) increase the obligated amount by \$72,353.80. Accordingly, the delivery order is modified as follows:

- (1) The attached modification to the statement of work is hereby incorporated as part of this delivery order; and,
- (2) the amount obligated under this order is increased by \$72,353.80, from \$168,352.40, to \$240,706.20.

All other terms and conditions remain unchanged.

A summary of obligations for this delivery order from the date of award through this action is provided below.

Total FY 2006 obligation amount:	\$168,352.40
Total FY 2007 obligation amount:	\$ 72,353.80

Cumulative Total of NRC Obligations: \$240,706.20

Fixed Ceiling Price: \$240,706.20

This delivery order is fully funded.

STATEMENT OF WORK
NRC/ATOMIC ENERGY REGULATORY BOARD OF INDIA
STANDARD PROBLEM EXERCISES
MODIFICATION NO. 1 DR-04-06-078

1.0 BACKGROUND

The Office of Nuclear Regulatory Research (RES) is supporting the NRC efforts in the United States - Indian cooperation in the field of nuclear power regulations. At the Seventh NRC-Atomic Energy Regulatory Board (AERB) of India Bilateral Meeting (March 24 through April 5, 2006) headed by Commissioner Lyons, it was agreed to by NRC and AERB to conduct two standard problem exercises: a severe accident analysis - the TMI-2 accident, and a PANDA experiment that simulates various phases of passive decay heat removal in advanced boiling water reactor containment. The last bilateral meeting was held on January 8-12, 2007, at NRC in Rockville, Maryland, whereby the final specifications for the standard problems were discussed and agreed upon by NRC and AERB. The next bilateral meeting is tentatively scheduled for November 2007 in Mumbai, India, and preliminary analysis of TMI-2 and PANDA experiments performed by NRC will be presented.

2.0 OBJECTIVE

To support and perform the joint NRC-AERB standard problem exercises: TMI-2 accident and an PANDA experiment¹

3.0 SCOPE (Add Task 3.4)

In cooperation with RES staff, the contractor shall perform the following task as follows:

3.4 Perform MELCOR uncertainty analysis for the TMI-2 accident

The contractor shall perform MELCOR uncertainty analysis to address reactor coolant behavior prior to the core being uncovered, overheating and oxidation of intact fuel pins, debris relocation within the core boundaries, relocation of the molten debris to the water baffle and lower plenum regions, and overheating of the reactor pressure vessel and eventual cooling of the wall and the core debris.

Deliverable: Preliminary analysis (letter report): ~~October 2007~~
Final analysis (letter report) April 2008

Jan. 2008
MKR

Estimated Completion date: April 30, 2008

Estimated Level-of-Effort: 350-staff-hours (mixture of labor categories as delineated

600

¹ International Standard Problem 42 (PANDA Experiments) - Final Comparison and Interpretation Report (Blind Exercise) NEA/CSNI/R(2003)6