

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1 CONTRACT ID CODE

PAGE 1 OF PAGES

2. AMENDMENT/MODIFICATION NO.

19

3. EFFECTIVE DATE

JAN 02 2001

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Nuclear Regulatory Commission
 Division of Contracts and Property Mgt.
 Attn: T-7-I-2
 Contract Management Branch
 Washington DC 20555

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

Risk Engineering, Inc.
 ATTN: Dr. Robin McGuire
 4155 Darley Avenue, Suite A
 Boulder, CO 80303

(X) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
 Con# NRC-04-96-037

10B. DATED (SEE ITEM 13)

CODE

FACILITY CODE

X

04-04-1996

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 of each copy of the offer submitted;
 - (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)

31X0200.160 252A W6248
 16015110110 Amount Obligated: \$30,696.00

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.

X

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) Changes - Cost Reimbursement - Alternate V (Apr. 1984)

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.)

(see page 2)

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)

Robin K. McGuire, President

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

Mary Mace, Contracting Officer

15B. CONTRACTOR/ISSUER OR

(Signature of person authorized to sign)

15C. DATE SIGNED

01/02/2001

16B. UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

16C. DATE SIGNED

12-21-00

STANDARD FORM 30 (REV. 10-83)

TEMPLATE - ADM 001

ADM 02

The purpose of this modification is to (1) incorporate the within-scope work to the contract as referenced in the Statement of Work (ATTACHMENT 1) from the contractor's proposal dated 12/6/00, (2) increase the contract ceiling amount by \$30,696 from \$1,299,556 to \$1,330,252, (3) increase the obligated amount by \$30,696 from \$1,299,556 to \$1,330,252, and (4) extend the period of performance of the contract through 3/31/2001. Accordingly, the contract is hereby modified as follows:

1. Section B.3, CONSIDERATION AND OBLIGATION--COST PLUS FIXED FEE (JUNE 1988) ALTERNATE I (JUNE 1991), paragraphs a, b, and c are deleted in their entirety and the following paragraphs are substituted in lieu thereof:
 - "a. The total estimated cost to the Government for full performance of this contract is \$1,330,252, of which the sum of \$1,323,878 represents the estimated reimbursable costs, and of which \$6,374 represents the fixed fee.
 - b. The amount currently obligated by the Government with respect to this contract is \$1,330,252.
 - c. It is estimated that the amount currently allotted will cover performance through 3/31/2001."
2. Section F.6, DURATION OF CONTRACT PERIOD, is deleted in its entirety and the following paragraph is substituted in lieu thereof:

"This contract shall commence on 4/4/96 and will expire on 3/31/2001."

All other terms and conditions under this contract remain unchanged.

A summary of obligations for this contract, from award date through the date of this action, is given below:

Total FY 96 Obligation Amount:	\$ 275,000.00
Total FY 97 Obligation Amount:	\$ 260,000.00
Total FY 98 Obligation Amount:	\$ 250,000.00
Total FY 99 Obligation Amount:	\$ 274,056.00
Total FY 2000 Obligation Amount:	\$ 240,500.00
Total FY 2001 Obligation Amount:	\$ 30,696.00

Cumulative Total of NRC Obligations: \$1,330,252.00

This modification obligates NRC FY 2001 funds in the amount of \$30,696.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

1 BACKGROUND

A meeting of the technical team (Risk Engineering, Inc., et al) with the peer review panel was held on August 3 - 4, 2000, in Oakland, California. The purpose of the meeting was to discuss the trial application of the methodology to a Western U.S. (WUS) site. The peer review panel expressed general agreement with the results obtained from the trial application, and the subsequent clarifications and refinements that had been made to the draft methodology (technical bases) report. The peer review panel did note that the draft applications report does not contain a discussion of the assumptions made by the technical team to achieve uniform hazard spectra on soil, and to develop uniform reliability spectra from the uniform hazard spectra.

This was the last scheduled meeting of the peer review panel. The NRC staff believes that the development of the methodology and its trial application to the WUS site have benefitted from the comments and recommendations made by the peer review panel. Therefore, an additional meeting of the peer review panel is being added to review and comment on material that was not included in the earlier draft report.

2 CONTRACT OBJECTIVES

The goal of this procurement is to (1) collect an earthquake strong motion time history database for use in developing response spectra and analyses, (2) develop recommendations for seismic design response spectra to be used for nuclear power plants considering engineering characteristics and different site and geographical conditions, and (3) develop recommendations for minimum power spectral density (or equivalent) requirements for the proposed spectral shapes. These results will be included as technical input by the NRC staff in its revision of Regulatory Guide 1.60, "Design Response Spectra for Seismic Design of Nuclear Power Plants."

3 SCOPE OF WORK

3.1 Additional Meeting of the Peer Review Panel

Schedule an additional peer review panel meeting (2 days) in Oakland, CA, to discuss (1) the trial application of the methodology to a Central and Eastern U.S. (CEUS) site; (2) the documentation of the assumptions made by the technical team to achieve uniform hazard spectra on soil, and to develop uniform reliability spectra from the uniform hazard spectra; and (3) the "generic procedure" similar to the steps that appear as the regulatory position in a regulatory guide (e.g., Regulatory Guide 1.165). An alternative location is acceptable if it is cost-effective; for instance, several of the peer review panel members are meeting on another topic/project.

4 PERIOD OF PERFORMANCE

The period of performance will be from the start of the modification through January 31, 2001. The contract period of performance is extended to March 31, 2001, to allow time to address issues associated with the publication of the final report.

5 SCHEDULE

The final report (electronic and "camera ready") on the trial application of the methodology to two sites should be submitted to the NRC by March 23, 2001.