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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | 1. CONTRACT ID CODE | PAGE OF PAGES 1 3 |
| 2. AMENDMENT/MODIFICATION NO. Thirty-Three | 3. EFFECTIVE DATE 11/9/90 | 4. REQUISITION/PURCHASE REQ. NO. NMS-88-005 dtd 11/10/90 | 5. PROJECT NO. (If applicable) | |
| 6. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts & Property Management Washington, D.C. 20555 | | 7. ADMINISTERED BY (If other than Item 6) CODE | | |

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| 8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code) Southwest Research Institute 6220 Culebra Road San Antonio, Texas 78228 | (f) | 9A. AMENDMENT OF SOLICITATION NO. |
| | | 9B. DATED (SEE ITEM 11) |
| | | 10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-02-88-005 |
| | X | 10B. DATED (SEE ITEM 13) 10/15/87 |

CODE _____ 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)
N/A

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

| | |
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| () | 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(d). |
| | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: |
| | D. OTHER (Specify type of modification and authority) |

E. IMPORTANT: Contractor is not, 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.)

SEE ATTACHED

9011200076 901109
PDR CONTR
NRC-02-88-005 PNU

| | | | |
|--|------------------|---|-----------------------------|
| 15A. NAME AND TITLE OF SIGNER (Type or print) Paul J. Edgeworth | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Paul J. Edgeworth | |
| 15B. CONTRACTOR/OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA <i>Paul J. Edgeworth</i> | 16C. DATE SIGNED 11/9/90 |

The purpose of this modification is to: 1) reflect the increase in the amount authorized under the Research Project Plan per my letter to John Latz dated October 22, 1990, 2) revise Section G.3.1.C to show changes in Project Officers, and 3) revise Section G.3.2.C to delete the Special Projects Program Element and Program Element Manager.

The following changes are hereby made:

1. Paragraph E under Section B.2 is revised to read as follows:

"E. The amount currently authorized for each operations plan is as follows:

High-Level Waste
FIN: D1035
AMOUNT: \$17,344,000.00

Transportation
FIN: D1070
AMOUNT: \$ 596,200.00

Research
FIN: B6666
AMOUNT: \$ 4,932,732.00

Licensing Support System
FIN: L15900
AMOUNT: \$ 166,000.00

Total Amount Authorized: \$23,038,932.00"

2. Revise Section G.3.1.C in its entirety as follows:

"C. The Project Officers and tasks for which they are designated are as follows:

CNWRA Operations

Project Officer

Task 5

CNWRA Internal QA

Mark S. Delligatti

Division of High-Level

Waste Management, NMSS

Waste Systems Engineering and Integration

Project Officer

Task 9

License Application Review Strategy

Robert L. Johnson

Division of High-Level

Waste Management, NMSS

Engineered Barrier System (EBS)

Project Officer

EBS Task 1

Kien C. Chang

Division of High-Level

Waste Management, NMSS

Engineered Barrier System (EBS) (Contd)

Project Officer
EBS Task 2
Charles G. Interrante
Division of High-Level
Waste Management, NMSS

Project Officer
EBS Task 3
Kien C. Chang
Division of High-Level
Waste Management, NMSS

Repository Design, Construction and Operations (RDCO)

Project Officer
RDCO Task 1
Dinesh C. Gupta
Division of High-Level
Waste Management, NMSS

Project Officer
RDCO Task 2
Naïem S. Tanious
Division of High-Level
Waste Management, NMSS

Research Program Element

Project Officer
Unsaturated Mass Transport
(Geochemistry)
George F. Birchard
Division of Engineering,
RES

Project Officer
Integrated Waste Package
Experiments
Phillip Reed
Division of Engineering,
RES

Project Officer
Seismic/Rock Mechanics
Jacob Philip
Division of Engineering,
RES

Project Officer
Thermohydrology
Timothy Margulies
Division of Engineering,
RES

Project Officer
Stochastic Analyses
Thomas Nicholson
Division of Engineering,
RES

Project Officer
Geochemical Analog
Linda A. Kovach
Division of Engineering,
RES"

3. Revise Section G.3.2.C to delete the following:

"Special Projects
NRC Program Element Manager

Mark S. Delligatti
Division of High-Level
Waste Management, NMSS"

All other terms and conditions of this contract remain unchanged.