

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE 1

OF PAGES 3

2. AMENDMENT/MODIFICATION NO. M292

3. EFFECTIVE DATE See Block 16C

4. REQUISITION/PURCHASE REQ. NO. NMS-02-07-006

5. PROJECT NO. (if applicable)

6. ISSUED BY U.S. Nuclear Regulatory Commission Div of Contracts Mail Stop - TWB 01 B10M Contract Management Branch No. 3 Washington, DC 20555

CODE 3100

7. ADMINISTERED BY (if other than Item 6) U.S. Nuclear Regulatory Commission Div of Contracts Mail Stop - TWB 01 B10M Contract Management Branch No. 3 Washington, DC 20555

CODE 3100

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

SOUTHWEST RESEARCH INSTITUTE INC

6220 CULEBRA RD

SAN ANTONIO TX 782385100

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-02-07-006

10B. DATED (SEE ITEM 13)

10-15-1987

CODE 007936842

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)

N/A

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

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)

E. IMPORTANT: Contractor is not, X 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.)

Please see attached pages.

Duns #: 007936842

Except as provided herein, all terms and conditions of the document referenced in Item 6A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

R.B. Kalmbach, Executive Director, Contracts

15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Valerie M. Whipple Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

4/27/2010

15B. UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

15C. DATE SIGNED

4/30/10

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

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA - FAR (48 CFR) 53.243

SUNSI REVIEW COMPLETE

MAY 06 2010

ADMOO

TEMPLATE - ADMOO

The purpose of this modification is as follows:

- 1) To revise Section C.2. to reflect new tasks added to scope of work for the CNWRA.
- 2) To replace E. William Brach with Vonna Ordaz as Technical Assistance Sponsor and to replace Robert C. Pierson with Daniel H. Dorman as C FCSS Sponsor.
- 3) To replace Eugene Peters with James Rubenstone in all program elements, and to replace Sheena Whaley with Yong Kim in all program elements.

Accordingly, the following changes are made:

1. C.2.3.16 is hereby added:

"C.2.3.16 Integrated Spent Nuclear Fuel Management Plan Activities

Activities under this area may include, but are not limited to: (1) activities associated with Beta TPA Code and Draft User Guide specifically focusing on developing, jointly with HLWRS staff, a new flexible performance assessment model, and draft user guide, to address alternative (to Yucca Mountain) disposal media or disposal system, including completion of activities in the Office of Nuclear Material Safety and Safeguards integrated spent nuclear fuel management plan (**Job Code J5662**); (2) activities associated with key regulatory and technical issues such as: activities to prepare to regulate longer term spent fuel storage (i.e., dry storage for periods in excess of 100 years) and deferred transportation; activities to prepare to regulate spent fuel reprocessing, which would alter the waste stream; activities to prepare NRC to provide the regulatory perspectives on waste policy options; and activities to prepare for ultimate disposal of high-level waste in alternative geologic media or disposal systems (**Job Code J5661**) and (3) any associated International Activities." See Change Page 16a.

2) Section G.3.1, Program Element Managers and Project Officers, paragraph C. High-Level Waste Repository Safety, is revised to replace Eugene Peters in all program elements with James Rubenstone, and to replace Sheena Whaley with Jack Guttman for Degradation of Engineer Barriers and with Yong Kim in all other program elements. Christian Jacobs replaces Yong Kim as Designee 1 under Preclosure Safety Evaluation. See Change Pages 31 and 31a.

3) Section G.3.2, Technical Assistance Sponsors, paragraph C. is revised to replace E. William Brach with Vonna Ordaz and to replace Robert C. Pierson with Daniel H. Dorman as Technical Assistance Sponsors. See Change Page 32.

All other terms and conditions of this contract, including the ceiling amount for the fourth renewal period of \$123,376,281.00, remain the same.

A summary of new obligations for the fourth renewal period of this contract is given below:

Job Code D1035 (HLW)

FY07 obligation amount: \$2,762,990

FY08 obligation amount: \$17,291,992.29

FY09 obligation amount: \$18,405,809.11

Cumulative total of NRC obligations for JC D1035 (HLW): \$38,460,791.40

Job Code J5633 (Newhall Pass)

FY08 obligation amount: \$117,792

FY09 obligation amount: \$45,000

Cumulative total of NRC obligations for J5633: \$162,792

Job Code J5608 (MacArthur Maze Fire)
FY08 obligation amount: \$65,000
Cumulative total of NRC obligations for J5608: \$65,000

Job Code J5562 (WIR)
FY08 obligation amount: \$283,000
FY09 obligation amount: \$500,000
FY10 obligation amount: \$351,750
Cumulative total of NRC obligations for J5562: \$1,134,750

Job Code J5639 (Comprehensive Assessment of Severe Road and Rail Transportation Accidents Involving
Long Duration Fires)
FY09 obligation amount: \$250,000
Cumulative total of NRC obligations for J5639 \$250,000

Job Code J5606 (SFST TAD)
FY09 obligation amount: \$190.89
Cumulative total of NRC obligations for J5606: \$190.89

Job Code J5661 (Key Regulatory and Technical Issues)
FY10 obligation amount: \$1,675,000
Cumulative total of NRC obligations for JC J5661: \$1,675,000

Job Code J5662 (BETA TPA and User Guide)
FY10 obligation amount: \$1,675,000
Cumulative total of NRC obligations for JC J5662: \$1,675,000

This modification does NOT obligate FY10 funds.

C.2.3.14 Performance Confirmation

Activities under this program area include, but are not limited to: (1) review and evaluation of related DOE or other NWPA-related plans and reports; (2) independent studies on related topics to support NRC evaluations and decisions; and (3) analysis of related policy issues. Tasks involve all of the technical disciplines associated with C.2.3.1, C.2.3.2, C. 2.3.3., C. 2.3.5 and C.2.3.8, which address the primary areas subject to confirmation.

C.2.3.15 NWPA-Related Reviews of Non-HLW Determinations

Activities under this area may include, but are not limited to: (1) review DOE's technical analysis and associated documentation related to their non-HLW determinations; (2) provide input to NRC staff for requests for additional information; (3) provide support in the development of Technical Evaluation Reports; (4) provide support to NRC in its monitoring role, including reviewing monitoring reports, assisting in the development of NRC monitoring plans, participating in on-site audits at DOE facilities, providing input to compliance reports; and (5) assist in the analysis of cross cutting technical issues and development of multi-agency material.

C.2.3.16 Integrated Spent Nuclear Fuel Management Plan Activities

Activities under this area may include, but are not limited to: (1) activities associated with Beta TPA Code and Draft User Guide specifically focusing on developing, jointly with HLWRS staff, a new flexible performance assessment model, and draft user guide, to address alternative (to Yucca Mountain) disposal media or disposal system, including completion of activities in the Office of Nuclear Material Safety and Safeguards integrated spent nuclear fuel management plan (**Job Code J5662**); (2) activities associated with key regulatory and technical issues such as: activities to prepare to regulate longer term spent fuel storage (i.e., dry storage for periods in excess of 100 years) and deferred transportation; activities to prepare to regulate spent fuel reprocessing, which would alter the waste stream; activities to prepare NRC to provide the regulatory perspectives on waste policy options; and activities to prepare for ultimate disposal of high-level waste in alternative geologic media or disposal systems (**Job Code J5661**) and (3) any associated International Activities

Yucca Mountain EIS	James Rubenstone/ C. Pineda Designee	Christine Pineda
HLW Public Outreach	King Stablein/ Janet Kotra Designee	Janet Kotra
Performance Confirmation	Jack Guttman/ Jeffrey Pohle Designee 1	Jeffrey Pohle
Inspection Program	James Rubenstone/ Tom Matula Designee 1	Tom Matula
Quantity and Chemistry of Water Contacting Engineered Barriers and Wasteforms	James Rubenstone/ David Brooks Designee 1 James Rubenstone Designee 2	David Brooks
RN Release Rates and Solubility Limits	Yong Kim/ Tae Ahn Designee 1 James Rubenstone Designee 2	Tae Ahn
RN Transport/Unsat. Zone	James Rubenstone/ John Bradbury Designee 1/ Randy Fedors Designee 2 James Rubenstone Designee 3	John Bradbury Randy Fedors
RN Transport/Sat. Zone	James Rubenstone/ John Bradbury Designee 1/ Jeffrey Pohle Designee 2 James Rubenstone Designee 3	John Bradbury
Climate and Infiltration	James Rubenstone/ Randy Fedors Designee 1/ Jeffrey Pohle Designee 2 James Rubenstone Designee 3	Randy Fedors Jeffrey Pohle
Flow Paths in the Unsat. Zone	James Rubenstone/ Randy Fedors Designee 1/ Jeffrey Pohle Designee 2 James Rubenstone Designee 3	Randy Fedors Jeffrey Pohle
Flow Paths in Sat. Zone/ Concentration of RN in Groundwater	James Rubenstone/ Randy Fedors Designee 1/ Jeffrey Pohle Designee 2 James Rubenstone Designee 3	Randy Fedors Jeffrey Pohle
General Information	James Rubenstone/ Philip Justus Designee 1 James Rubenstone Designee 2	Philip Justus
Volcanic Disruption of the Waste Package	James Rubenstone/ Stephen Self Designee 1 James Rubenstone Designee 2	Stephen Self

Airborne Transport of Radionuclides/ Redistribution of RN in Soil	James Rubenstone/ Stephen Self Designee 1 James Rubenstone Designee 2	Stephen Self
Degradation of Eng. Barriers	Jack Guttman/ Tae Ahn Designee 1 James Rubenstone Designee 2	Yong Kim
Preclosure Safety Eval.	Yong Kim Christian Jacobs Designee 1 Robert Johnson Designee 2	Christian Jacobs
Mechanical Disruption of Engineered Barriers	Yong Kim/ Mysore Nataraja Designee 1 James Rubenstone Designee 2	Mysore Nataraja
Methodology and Overall System Performance	Jack Guttman/ Bret Leslie Designee 1 James Rubenstone Designee 2	Bret Leslie
Biosphere Characteristics	Jack Guttman/ Anita Turner-Gray Designee 1 James Rubenstone Designee 2	Anita Turner-Gray
Support Reg. Framework	King Stablein/ Timothy McCartin Designee	Timothy McCartin
Hearing Support	King Stablein Brian Benny Designee	Brian Benny
Administrative Items - (Vol. 5)	James Rubenstone Kien Chang Designee	Kien Chang

Spent Fuel Storage and Transportation

Private Fuel Storage	James R. Hall	James R. Hall
Transportation, Aging and Disposal Container Design	Michael Waters	Michael Waters
Analysis of Elevated Roadway Steel Support Beams and Coatings Exposed to a Severe Fire Environment	Earl Easton	Christopher Bajwa

Division of Waste Management and Environmental Protection

<u>Center Element</u> WIR DOE South Carolina and Idaho	<u>Program Element Manager</u> Michael Fuller	<u>Project Officer</u> Deborah DeMarco
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G.3.2 - Technical Assistance Sponsors

A. The individuals listed in "C" below are hereby designated as Technical Assistance Sponsors. The individual Technical Assistance Sponsors have overall technical responsibility for the work placed at the Center, within their respective areas, as detailed in paragraph C. below and are responsible for: (1) identifying, prioritizing and recommending work to be placed at the Center; (2) monitoring the Center's progress to ensure that work completed is commensurate with resources expended and is on schedule including surveillance and assessment of performance, and recommending to the NRC CO changes in requirements; (3) interpreting the scope of work as required; (4) performing technical evaluations as necessary; (5) performing technical reviews and acceptances as required; and (6) assisting the Center in the resolution of technical problems encountered during performance. Within the purview of this authority the Technical Assistance Sponsors are authorized to review all costs requested for reimbursement by the Center which are associated to their particular program area and submit recommendations for approval, disapproval, or suspension for supplies/services required under the contract to the NRC CNWRA Program Manager. The NRC CO is responsible for directing or negotiating any changes in terms, conditions, or amounts cited in the contract and elements.

B. The Technical Assistance Sponsors are not authorized to approve or request any action which results in or could result in an increase in contract cost; or terminate the contract, settle any claim or dispute arising under the contract or issue any unilateral directive whatsoever.

C. The Technical Assistance Sponsors are:

High Level Waste Sponsor

Lawrence E. Kokajko, Director
Division of High Level Waste
Repository Safety, NMSS

SFST Sponsor

Vonna Ordaz, Director
Division of Spent Fuel Storage and
Transportation, NMSS

DWMEP Sponsor
WIR

Larry W. Camper, Director
Division of Waste Management and
Environmental Protection, FSME

FCSS Sponsor

Daniel H. Dorman, Director
Division of Fuel Cycle Safety and
Safeguards, NMSS