

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE 1 OF 4

2. AMENDMENT/MODIFICATION NO. M318

3. EFFECTIVE DATE 12-09-2011

4. REQUISITION/PURCHASE REQ. NO. NMS-12-003 NMS-12-004

5. PROJECT NO. (if applicable)

6. ISSUED BY CODE 3100 U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Mail Stop: TWB-01-B20M Washington, DC 20555

7. ADMINISTERED BY (if other than Item 6) CODE 3100 U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop: TWB-01-B10M Washington, DC 20555

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

SOUTHWEST RESEARCH INSTITUTE 6220 CULEBRA RD SAN ANTONIO TX 782385166

(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) X

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) RFP#: NMS-12-004; B&R: 12-38-7-183; JC: J5705; BOC: 252A Appropriation No.: X0200; \$100,000

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: X D. OTHER (Specify type of modification and authority) FAR 52.232-22 and Mutual Agreement of Both Parties

E. IMPORTANT: Contractor [X] 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.)

The purpose of this modification is to: (1) add incremental funding in the amount of \$100,000; (2) include Chris Jacobs as the COR for Job Code J5681

Please see attached pages.

DUNS: 007936842 NAICS: 562211 PSC: R499

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) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Steve Pool Branch Chief, MSA 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA BY [Signature] (Signature of Contracting Officer) 16C. DATE SIGNED 12/9/11 (Signature of person authorized to sign)

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

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

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

ADM002

The purpose of this modification is to obligate funds for this work in the amount of \$100,000 under Job Code J5705.

**ACCOUNTING DATA:**

**B&R: 12-38-7-183    JC: J5705    BOC: 252A    APPN: X0200    NMS-12-004    FAIMIS: 120309    \$100,000**

Accordingly, the following changes are made:

1. Sections B. 2. E. b., d, and e. are revised to obligate and authorize funding as specified above and as shown on the attached change pages 9, 9a, 9b and 9c; and
2. Section G.3.1.C. – Program Managers and Project Officers, is hereby updated as shown on attached Change Page 31a to add Chris Jacobs for Job Code J5681.

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

FY10 obligation amount: \$9,042,117.00

Cumulative total of NRC obligations for JC D1035 (HLW): \$47,502,908.40

**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: \$88,121

Cumulative total of NRC obligations for J5608: \$88,121

**Job Code J5562 (WIR)**

FY08 obligation amount: \$283,000

FY09 obligation amount: \$500,000

FY10 obligation amount: \$469,000

FY11 obligation amount: \$629,436

Cumulative total of NRC obligations for J5562: \$1,880,968

**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

FY 11 obligation amount: \$3,972,000

Cumulative total of NRC obligations for JC J5661: \$5,647,000

Job Code J5662 (BETA TPA and User Guide)

FY10 obligation amount: \$1,675,000

FY11 obligation amount: \$675,000

Cumulative total of NRC obligations for JC J5662: \$2,350,000

Job Code J5656 (Calvert Cliffs SFST)

FY10 obligation amount: \$325,000

Cumulative total of NRC obligations for JC J5656: \$325,000

Job Code F1191 (ETR)

FY10 obligation amount: \$200,786

FY11 obligation amount: \$411,343

FY12 obligation amount: \$150,000

Cumulative total of NRC obligations for JC F1191: \$762,129

Job Code J5664 (FCSS Technical Basis for Licensing Reprocessing Facilities)

FY10 obligation amount: \$500,000

FY11 obligation amount: \$710,000

Cumulative total of NRC obligations for JC J5664: \$1,210,000

Job Code J5670 (International Programs)

FY10 obligation amount: \$400,000

FY11 obligation amount: \$155,000

Cumulative total of NRC obligations for JC J5670: \$555,000

Job Code J5679 (Waste Confidence)

FY11 obligation amount: \$2,180,000

Cumulative total of NRC obligations for JC J5679: \$2,180,000

**\*\*NOTE: Work previously under JC5661\*\***

Job Code J5682 (Regulatory Process Improvements)

FY11 obligation amount: \$195,000

Cumulative total of NRC obligations for JC J5682: \$195,000

Job Code J5681 (Analytical Support for Regulation of Extended Storage)

FY11 obligation amount: \$448,000

Cumulative total of NRC obligations for JC J5681: \$448,000

Job Code V6288 (Stress Corrosion Cracking Analysis of Dry Cask Storage Materials)

FY11 obligation amount: \$650,000

Cumulative total of NRC obligations for JC J5681: \$650,000

Job Code V6258 (Consequence Assessment of Extended Dry Cask Storage)

FY11 obligation amount: \$112,000

Cumulative total of NRC obligations for JC J5681: \$112,000

**Job Code J5705 (Quantitative Hazards Methods Development)**

**FY12 obligation amount: \$100,000**

**Cumulative total of NRC obligations for JC J5705: \$100,000**

**This modification obligates FY12 funds in the amount of \$100,000.**

e. Total amount authorized by Operations/Project Plans was as follows:

High-Level Waste (HLW) Job Code: D1035 Amount: \$82,000,000	Private Fuel Storage (PFS) Job Code: J5226 Amount: \$207,542
INEEL ISFSI-2 Job Code: J5410 Amount: \$685,819.72	Diablo Canyon Job Code: J5390 Amount: \$482,753.90
Tunnel Fire Environment Job Code: J5434 Amount: \$65,712.26	Humboldt Bay Job Code: J5501 Amount: \$932,636.67
WIR DOE South Carolina and Idaho Job Code: J5543 Total: \$266,240.88 Job Code: J5562 Total: \$1,642,953	MacArthur Maze Fire Job Code: J5608 Total: \$94,249  SFST TAD Job Code: J5606 Total: \$220,000

f. The total award fee available, the award fee earned thus far and the applicable evaluation period are as follows:

<u>Evaluation Period</u>	<u>Available Award Fee</u>	<u>Award Fee Earned</u>
22 9/28/02-9/26/03	\$850,886	\$835,570
23 9/27/03-9/24/04	\$889,876	\$863,180
24 9/27/04-9/24/05	\$968,227	\$948,863
25 9/30/05-9/29/06	\$1,007,080	\$966,796
26 9/30/06-9/28/07	\$1,047,741	\$972,304

**Current Data**

E. September 29, 2007 - September 28, 2012 (Fourth Renewal period, Contract No. NRC-02-07-006)

- a. The total estimated ceiling amount of this Cost-Plus-Award-Fee type contract for the above mentioned period is \$123,376,281.
- b. The amount presently obligated by the Government with respect to this contract for this period is **\$64,418,918.40**. In addition, carryover funds in the estimated amount of \$3,727,149.29 are available for use in this renewal period as indicated below. The award fee pool will be as stated in the AFDP. The plan will reflect the actual award fee pool based on cumulative estimated costs for performance of approved

Operations Plans. The applicable base fee percentage is also described in the AFDP.

- c. Evaluation of the award fee earned will be accomplished in accordance with the current AFDP (Attachment 11). Neither the determination as to the amount of fee available during a given period, the amount of award fee earned, nor the determination of the criteria under which the subject award fee will be made, shall be subject to FAR Subpart 52.233-1, entitled, "Disputes".
- d. Total funds currently obligated by Job Code (JC) are as follows:

High-Level Waste (HLW)  
Job Code: D1035  
New Funds: \$47,502,908.40  
Carryover: \$2,891,902.10  
Total: \$50,394,810.50

Private Fuel Storage (PFS)  
Job Code: J5226  
New Funds:  
Carryover:  
Total:

WIR DOE South Carolina and Idaho  
Job Code: J5562  
New Funds: \$1,880,968.00  
Carryover: \$484,481.08  
Total: \$2,365,449.08

MacArthur Maze Fire  
Job Code: J5608  
New Funds: \$88,121  
Carryover: \$60,210.16  
Total: \$148,331.16

SFST TAD  
Job Code: J5606  
New Funds: \$190.89  
Carryover: \$287,365.06  
Total: \$287,555.95

Newhall Pass  
Job Code: J5633  
New Funds: \$162,792  
Carryover: \$0  
Total: \$162,792

SFST (Comprehensive Assessment of Severe Road and Rail Transportation)  
Job Code: J5639  
New Funds: \$250,000  
Carryover: \$0  
Total: \$250,000

BETA TPA Code and User Guide  
Job Code: J5662  
New Funds: \$2,350,000  
Carryover: \$0  
Total: \$2,350,000

Key Regulatory and Technical Issues  
Job Code: J5661  
New Funds: \$5,647,000  
Carryover: \$0  
Total: \$5,647,000

Calvert Cliffs SFST  
Job Code: J5656  
New Funds: \$325,000  
Carryover: \$0  
Total: \$325,000

Environmental Tropical Report (ETR)  
Job Code: F1191  
New Funds: \$762,129  
Carryover: \$0  
Total: \$762,129

International Programs  
Job Code: J5670  
New Funds: \$555,000  
Carryover: \$0  
Total: \$555,000

FCSS Licensing Reprocessing Facilities  
Job Code: J5664  
New Funds: \$1,210,000  
Carryover: \$0  
Total: \$1,210,000

Waste Confidence  
Job Code: J5679  
New Funds: \$2,180,000  
Carryover: \$0  
Total: \$2,180,000

Regulatory Process Improvements  
Job Code: J5682  
New Funds: \$195,000  
Carryover: \$0  
Total: \$195,000

Analytical Support for Regulation of  
Extended Storage  
Job Code: J5681  
New Funds: \$448,000  
Carryover: \$0  
Total: \$448,000

Stress Corrosion Cracking Analysis  
of Dry Cask Storage Materials  
Job Code: V6288  
New Funds: \$650,000  
Carryover: \$0  
Total: \$650,000

Consequence Assessment of  
Extended Dry Cask Storage  
Job Code: V6258  
New Funds: \$112,000  
Carryover: \$0  
Total: \$112,000

**Quantitative Hazards Methods Development**  
**Job Code: J5705**  
**New Funds: \$100,000**  
**Carryover: \$0**  
**Total: \$100,000**

e. Total amount authorized by Operations Plan is as follows:

High-Level Waste (HLW)  
Job Code: D1035  
Amount: \$45,135,442

Private Fuel Storage (PFS)  
Job Code: J5226  
Amount:

WIR DOE South Carolina and Idaho  
Job Code: J5562  
Amount: \$2,222,392  
Job Code: J5543  
Amount: (\$33,759.12)

MacArthur Maze Fire  
Job Code: J5608  
Amount: \$125,210.16

SFST TAD  
Job Code: J5606  
Amount: \$243,877.89

Newhall Pass  
Job Code: J5633  
Amount: \$193,331

SFST (Comprehensive Assessment of  
Severe Road and Rail Transportation  
Accidents Involving Long Duration Fires)  
Job Code: J5639  
Amount: \$250,000

BETA TPA Code and User Guide  
Job Code: J5662  
Amount: \$2,350,000

Key Regulatory and Technical Issues  
Job Code: J5661  
Amount: \$5,647,000

Calvert Cliffs - SFST  
Job Code: J5656  
Amount: \$325,000

Environmental Topical Report  
Job Code: F1191  
Amount: \$762,129

International Programs  
Job Code: J5670  
Amount: \$555,000

FCSS Licensing Reprocessing Facilities  
Job Code: J5664  
Amount: \$1,210,000

Waste Confidence  
Job Code: J5679  
Amount: \$2,180,000

Regulatory Process Improvements  
Job Code: J5682  
Amount: \$195,000

Analytical Support for Regulation of  
Extended Storage  
Job Code: J5681  
Amount: \$448,000

Stress Corrosion Cracking Analysis  
of Dry Cask Storage Materials  
Job Code: V6288  
Amount: \$650,000

Consequence Assessment of  
Extended Dry Cask Storage  
Job Code: V6258  
Amount: \$112,000

**Quantitative Hazards Methods Development**  
**Job Code: J5705**  
**New Funds: \$100,000**  
**Carryover: \$0**  
**Total: \$100,000**



- f. The total award fee available, the award fee earned thus far and the applicable evaluation period are as follows:

<u>Evaluation Period</u>	<u>Available Award Fee</u>	<u>Award Fee Earned</u>
27 9/27/07 - 9/26/08	[REDACTED]	[REDACTED]
28 9/27/09 - 9/26/09	[REDACTED]	[REDACTED]
29 9/27/09 - 9/26/10	[REDACTED]	[REDACTED]
30		
31		

Section C - Description/Specifications/Work Statement

C.1 Statement of Work for Operation of the Center for Nuclear Waste Regulatory Analyses

C.1.1 Concept for CNWRA Support to NRC

C.1.1.1 Nuclear Waste Policy Act of 1982

The Nuclear Waste Policy Act of 1982 as amended (NWPA) sets forth the policy of the United States with regard to the management, storage, transportation, and disposal of this nation's high-level radioactive waste from commercial and defense activities. The NWPA charges the Department of Energy (DOE) as the lead Federal Agency to

**EST Technical Basis/Safety and Security Framework Analytical Support for Regulation of Extended Storage (Job Code J5681)**

<b><u>Task</u></b>	<b><u>Project Officer</u></b>	<b><u>Branch Chief</u></b>
	Chris Jacobs	J. Rubenstone

**Storage/Transport Inspection Process Improvements Regulatory Process Improvements to the Licensing and Inspection Programs (Job Code J5682)**

<b><u>Task</u></b>	<b><u>Project Officer</u></b>	<b><u>Branch Chief</u></b>
	T. Matula	B. Benney