

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE

OF

1

4

2. AMENDMENT/MODIFICATION NO.

M321

3. EFFECTIVE DATE

02-03-2012

4. REQUISITION/PURCHASE REQ. NO.

See Page 2

5. PROJECT NO. (if applicable)

6. ISSUED BY

CODE

3100

7. ADMINISTERED BY (If other than Item 6)

CODE

3100

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

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)
09-29-2007

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) See Block 14.

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: FAR 52.232-22 Limitation of Funds, and by Mutual Agreement
D. OTHER (Specify type of modification and authority)

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 FY12 incremental funding in the amount of \$266,000; (2) de-obligate FY11 funds for \$20,000 under Job Code J5682; and (3) record award fee information for FY11.

(See attached pages)

All other terms and conditions remain unchanged and in full force and effect.

DUNS: 007936842 NAICS: 562211 PSC: R421 (code has since changed to 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

16C. DATE SIGNED

(Signature of person authorized to sign)

BY (Signature of Contracting Officer)

2/3/12

CONTINUATION PAGE

Description of Changes Incorporated by Modification No. 321 to NRC-02-07-006 Page 2 of 4

The purpose of this modification is to:

(1) obligate funds for this work in the amount of:

- \$16,000 under Job Code J5681,
- \$50,000 under Job Code J5708,
- \$100,000 under Job Code J5662,
- \$25,000 under Job Code J5670,
- \$75,000 under Job Code J5664;

(2) de-obligate \$20,000 under Job Code J5682.

ACCOUNTING DATA:

Obligation:



B&R: 12-50-33-6-199	JC: J5681	BOC: 252A	APPN: X0200	NMS-12-018	FAIMIS: 121083	\$16,000
B&R: 12-50-33-4-189	JC: J5708	BOC: 252A	APPN: X0200	NMS-12-019	FAIMIS: 121108	\$50,000
B&R: 12-50-334-151	JC: J5662	BOC: 252A	APPN: X0200	NMS-12-022	FAIMIS: 121246	\$100,000
B&R: 12-50-333-159	JC: J5670	BOC: 252A	APPN: X0200	NMS-12-023	FAIMIS: 121247	\$25,000
B&R: 12-50-387-183	JC: J5664	BOC: 252A	APPN: X0200	NMS-12-024	FAIMIS: 121248	\$75,000

De-obligation:

B&R: 11-50-335-139	JC: J5682	BOC: 252A	APPN: X0200	NMS-12-016	FAIMIS: XXXXX	\$20,000
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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, 9b, and 9c.
2. Section B.2.E.f. is revised to: (1) change the dates of evaluation period 29 to "9/27/08 – 9/26/09" and (2) add award fee information for evaluation period 30, as follows:

<u>Evaluation Period</u>	<u>Available Award Fee</u>	<u>Award Fee Earned</u>
30 9/27/10 – 9/26/11		

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
FY11 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
FY12 obligation amount: \$100,000
Cumulative total of NRC obligations for JC J5662: **\$2,450,000**

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: \$200,000

Cumulative total of NRC obligations for JC F1191: \$812,129

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

FY10 obligation amount: \$500,000

FY11 obligation amount: \$710,000

FY12 obligation amount: \$75,000

Cumulative total of NRC obligations for JC J5664: **\$1,285,000**

Job Code J5670 (International Programs)

FY10 obligation amount: \$400,000

FY11 obligation amount: \$155,000

FY12 obligation amount: \$25,000

Cumulative total of NRC obligations for JC J5670: **\$580,000**

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

FY11 de-obligation amount: \$20,000

Cumulative total of NRC obligations for JC J5682: **\$175,000**

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

FY11 obligation amount: \$448,000

FY12 obligation amount: \$16,000

Cumulative total of NRC obligations for JC J5681: **\$464,000**

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

FY12 obligation amount: \$14,739

Cumulative total of NRC obligations for JC J5681: \$126,739

Job Code J5705 (Quantitative Hazards Methods Development)

FY12 obligation amount: \$100,000

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

Job Code J5708 (Prairie Island Independent Spent Fuel Storage Installation License)

FY12 obligation amount: \$50,000

Cumulative total of NRC obligations for JC J5708: \$50,000

This modification obligates FY12 funds in the amount of \$266,000 and de-obligates FY11 funds in the amount of \$20,000.

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	[REDACTED]	[REDACTED]
23 9/27/03-9/24/04	[REDACTED]	[REDACTED]
24 9/27/04-9/24/05	[REDACTED]	[REDACTED]
25 9/30/05-9/29/06	[REDACTED]	[REDACTED]
26 9/30/06-9/28/07	[REDACTED]	[REDACTED]

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 **\$64,729,657.40**. 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: **\$2,450,000**
Carryover: \$0
Total: **\$2,450,000**

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: \$50,000
Carryover: \$0
Total: \$812,129

FCSS Licensing Reprocessing Facilities
Job Code: J5664
New Funds: **\$1,285,000**
Carryover: \$0
Total: **\$1,285,000**

Regulatory Process Improvements
Job Code: J5682
New Funds: **\$175,000**
Carryover: \$0
Total: **\$175,000**

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

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

International Programs
Job Code: J5670
New Funds: **\$580,000**
Carryover: \$0
Total: **\$580,000**

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

Analytical Support for Regulation of
Extended Storage
Job Code: J5681
New Funds: **\$464,000**
Carryover: \$0
Total: **\$464,000**

Consequence Assessment of
Extended Dry Cask Storage
Job Code: V6258
New Funds: \$14,739
Carryover: \$0
Total: \$126,739

**Prairie Island Independent Spent Fuel
Storage Installation License**
Job Code: **J5708**
New Funds: **\$50,000**
Carryover: **\$0**
Total: **\$50,000**

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

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

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

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

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

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

Newhall Pass
Job Code: J5638
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: **\$2,450,000**

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: \$812,129

International Programs
Job Code: J5670
Amount: **\$580,000**

FCSS Licensing Reprocessing Facilities
Job Code: J5664
Amount: **\$1,285,000**

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

Regulatory Process Improvements
Job Code: J5682
Amount: **\$175,000**

Analytical Support for Regulation of
Extended Storage
Job Code: J5681
Amount: **\$464,000**

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: \$126,739

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

**Prairie Island Independent Spent Fuel
Storage Installation License**
Job Code: **J5708**
Total: **\$50,000**

- 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 9/27/08 - 9/26/09	[REDACTED]	[REDACTED]
29 9/27/09 - 9/26/10	[REDACTED]	[REDACTED]
30 9/27/10 - 9/26/11	[REDACTED]	[REDACTED]
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 Enriched Storage (Job Code J5681)

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

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

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

Center Technical Assistance in Prairie Island Independent Spent Fuel Storage Installation License (Job Code J5708)

<u>Task</u>	<u>Project Officer</u>	<u>Branch Chief</u>
	P. Longmire	