

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO. 1. CONTRACT ID CODE PAGE 1 OF 4

2. AMENDMENT/MODIFICATION NO. M319	3. EFFECTIVE DATE 12-16-2011	4. REQUISITION/PURCHASE REQ. NO. FSM-12-031 RES-12-049	5. PROJECT NO. (if applicable)
6. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Mail Stop: TWB-01-B20M 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 Washington, DC 20555	CODE 3100

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
	X	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).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.232-22 and Mutual Agreement of Both Parties
	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.

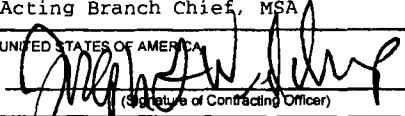
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
 The purpose of this modification is to: (1) add incremental funding in the amount of \$64,739; and (2) add Dr. Stephen Lemont as the primary TPM (COR) and Jean Trefethen as the co-TPM (alternate COR) for Job Code F1191.

RFFA: FSM-12-031; B&R: 2012-55-38-7-183; JC: F1191; BOC: 252A; Approp. No.: 31X0200; FAIMIS: 120778; Obligation: \$50,000
 RFFA: RES-12-049; B&R: 2012-60-33-6-199; JC: V6258; BOC: 253D; Approp. No.: 31X0200; FAIMIS: 120593; Obligation: \$14,739

Please see attached pages.

DUNS: 007936842 NAICS: 562211 PSC: R421

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) Joseph Widdup Acting Branch Chief, MSA
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 12/16/11

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

CONTINUATION PAGE

Description of Changes Incorporated by Modification No. 319 to NRC-02-07-006 Page 2 of 4

The purpose of this modification is to obligate funds for this work in the amount of **\$50,000** under Job Code F1191 and **\$14,739** under Job Code V6258.

ACCOUNTING DATA:

B&R: 2012-55-38-7-183 JC: F1191 BOC: 252A APPN: 31X0200 FSM-12-031 FAIMIS: 120778 \$50,000

B&R: 2012-60-33-6-199 JC: V6258 BOC: 253D APPN: 31X0200 RES-12-049 FAIMIS: 120593 \$14,739

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 G.3.1.C. – Program Managers and Project Officers, is hereby updated as shown on attached Change Page 31 to add Dr. Stephen Lemont as the primary and Jean Trefethen as the alternate for Job Code F1191.

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: \$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
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

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

This modification obligates FY12 funds in the amount of \$64,739.

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

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 **\$64,483,657.40**. 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

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: \$1,210,000
Carryover: \$0
Total: \$1,210,000

Regulatory Process Improvements

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

**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

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)

International Programs

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

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: \$448,000
Carryover: \$0
Total: \$448,000

**Consequence Assessment of
Extended Dry Cask Storage**

Job Code: V6258
New Funds: \$14,739
Carryover: \$0
Total: \$126,739

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: 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: \$812,129

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: \$126,739

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

Knowledge Management (Nuclear Waste Funds) – Job Code D-1035

<u>Task</u>	<u>Project Officer</u>
Technical Evaluation Report (vol. 2, 3, & 4) Knowledge Management reports Knowledge Management other	Christian Jacobs King Stablein King Stablein

Division of Waste Management and Environmental Protection – Job Code J5562

<u>Center Element</u>	<u>Program Element Manager</u>	<u>Project Officer</u>
WIR DOE South Carolina and Idaho	Mathews George	Deborah DeMarco

<u>Center Level</u>	<u>Task Project Officer</u>
Levels 1 and 2	David Brown
Levels 3 and 4	Patricia Swain
Level 5	Mathews George
Level 6 and 7	Cynthia Barr

Reprocessing (fee based)

<u>Task</u>	<u>Project Officer</u>
Technical Support (Job Code J5664)	Yarwar Faraz
Environmental Topical Report (Job Code F 1191) (currently managed by FSME)	Dr. Stephen Lemont Jean Trefethen (co-TPM)

Waste Confidence/Extended Storage & Transportation (fee based)

<u>Task</u>	<u>Project Officer</u>
EIS development* (Job Code J5661) (NOTE: A new separate Job Code being established).	Christine Pineda

Ultimate Disposal (fee based)

<u>Task</u>	<u>Project Officer</u>
Task 1: SOAR code (Job Code J5662) Task 2: Regulatory & Technical Issues (Job Code J5661) Task 3: International Experience (Job Code J5670)	Christopher Markley Christopher Markley Jack Gwo