

2. AMENDMENT/MODIFICATION NO. M295	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. NMS-02-07-006	5. PROJECT NO. (if applicable)
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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
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) SOUTHWEST RESEARCH INSTITUTE INC 6220 CULEBRA RD SAN ANTONIO TX 782385100 CODE 007936842 FACILITY CODE	(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) 10-15-1987

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 PAGE TWO FOR ACCOUNTING AND APPROPRIATION DATA*****

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: 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 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

15A. NAME AND TITLE OF SIGNER (Type or print) R.B. Kalmbach, Executive Director, Contracts	15B. CONTRACTOR/OFFEROR 	15C. DATE SIGNED 8/23/2010	18A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Valerie M. Whipple Contracting Officer	18B. UNITED STATES OF AMERICA BY	18C. DATE SIGNED 8/25/10
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The purpose of this modification is as follows:

- (1) to obligate and authorize funds under **Job Code D1035** in the amount of **\$712,000**,
- (2) obligate and authorize funds under **Job Code J5562** in the amount of **\$117,250**,
- (3) to obligate and authorize funds under **Job Code J5656** in the amount of **\$169,400**,
- (4) to add a new task entitled "Technical Assistance for the Development of an Environmental Topical Report for Reprocessing Facilities,"
- (5) to obligate funds in the amount of **\$200,786** under **Job Code F1191** for work associated with the new Office of Federal and State Materials and Environmental Management Programs (FSME) task.
- (6) to add a new task entitled "Technical Assistance to the Division of Fuel Cycle Safety and Safeguards in Support of Developing the Technical Basis for Licensing Reprocessing Facilities," and
- (7) to obligate funds in the amount of **\$500,000** under **Job Code J5664** for work associated with the new FCSS task.
- (8) to add a new task entitled "International Programs under Integrated Spent Nuclear Fuel Regulatory Program," and
- (7) to obligate funds in the amount of **\$400,000** under **Job Code J5670** for work associated with the new task for International Programs.

ACCOUNTING AND APPROPRIATION DATA:

B&R: 05015300139	JC: D1035	BOC: 252A	APPN: X0200	FFS: 5010R059	\$712,000
B&R: 05515356257	JC: J5562	BOC: 252A	APPN: 31X0200	FFS: 5510R156	\$117,250
B&R: 5015366270	JC: J5656	BOC: 252A	APPN: X0200	FFS: 5010R055	\$169,400
B&R: 05515333120	JC: F1191	BOC: 252A	APPN: 31X200	FFS: 5510R108	\$200,786
B&R: 05015333120	JC: J5664	BOC: 252A	APPN: X0200	FFS: 5010R035	\$500,000
B&R: 05015366120	JC: J5670	BOC: 252A	APPN: X0200	FFS: 5010R044 & 5010R060	\$400,000

Accordingly, the following changes are made:

1. Sections B. 2. E. b., d, and e, are revised to obligate and authorize funding for (1) **Job Code D1035** in the amount of **\$712,000**, (2) **Job Code J5562** in the amount of **\$117,250**, (3) **Job Code J5656** in the amount of **\$169,400**, (4) **Job Code F1191** in the amount of **\$200,786**, (5) **Job Code J5664** in the amount of **\$500,000**, and (6) **Job Code J5670** in the amount of **\$400,000**, as shown on the attached change pages 9, 9a, and 9b.

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: **\$ 8,466,000.00**

Cumulative total of NRC obligations for JC D1035 (HLW): **\$46,926,791.40**

Job Code J5633 (Newhall Pass)

FY08 obligation amount: \$117,792

FY09 obligation amount: \$45,000

Cumulative total of NRC obligations for J5633: \$162,792
**Description of Changes Incorporated by Modification No. 295
to NRC-02-07-006**

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Job Code J5608 (MacArthur Maze Fire)
FY08 obligation amount: **\$88,121***
Cumulative total of NRC obligations for J5608: **\$88,121***
***NOTE: correcting administrative oversight**

Job Code J5562 (WIR)
FY08 obligation amount: \$283,000
FY09 obligation amount: \$500,000
FY10 obligation amount: **\$469,000**
Cumulative total of NRC obligations for J5562: **\$1,252,000**

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**

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: \$100,000
Cumulative total of NRC obligations for JC F1191: **\$200,786**

Job Code J5664 (FCSS Technical Basis for Licensing Reprocessing Facilities)
FY10 obligation amount: **\$500,000**
Cumulative total of NRC obligations for JC J5664: **\$500,000**

Job Code J5670 (International Programs)
FY10 obligation amount: **\$400,000**
Cumulative total of NRC obligations for JC J5670: **\$400,000**

This modification obligates FY10 funds in the amount of \$2,099,436.

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 \$53,455,490.40. 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: \$46,926,791.40
Carryover: \$2,891,902.10
Total: \$49,818,693.50

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

WIR DOE South Carolina and Idaho
Job Code: J5562
New Funds: \$1,252,000.00
Carryover: \$484,481.08
Total: \$1,736,481.08

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: \$1,675,000
Carryover: \$0
Total: \$1,675,000

Key Regulatory and Technical Issues
Job Code: J5661
New Funds: \$1,675,000
Carryover: \$0
Total: \$1,675,000

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

Environmental Tropical Report (ETR)
Job Code: F1191
New Funds: \$200,786
Carryover: \$0
Total: \$200,786

International Programs
Job Code: J5670
New Funds: \$400,000
Carryover: \$0
Total: \$400,000

FCSS Licensing Reprocessing Facilities
Job Code: J5664
New Funds: \$500,000
Carryover: \$0
Total: \$500,000

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

High-Level Waste (HLW)
 Job Code: D1035
 Amount: \$44,559,325

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

WIR DOE South Carolina and Idaho
 Job Code: J5562
 Amount: \$1,685,674
 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: \$1,675,000

Key Regulatory and Technical Issues
 Job Code: J5661
 Amount: \$1,675,000

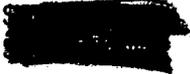
Calvert Cliffs - SFST
 Job Code: J5656
 Amount: \$325,000

Environmental Topical Report
 Job Code: F1191
 Amount: \$200,786

International Programs
 Job Code: J5670
 Amount: \$400,000

FCSS Licensing Reprocessing Facilities
 Job Code: J5664
 Amount: \$500,000

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		
28 9/27/09 - 9/26/09		
29		
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 (NWPAA) 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 NWPAA charges the Department of Energy (DOE) as the lead Federal Agency to