

2. AMENDMENT/MODIFICATION NO. M254	3. EFFECTIVE DATE 11/28/2007	4. REQUISITION/PURCHASE REQ. NO. NMS-07-006 dtd. 11/28/2007	5. PROJECT NO.(if applicable)
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6. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Mail Stop T-7-I-2 Washington, DC 20555	CODE 3100	7. ADMINISTERED BY (If other than Item 6) U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop T-7-I-2 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 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)
CODE	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.

(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.
X	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, 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.)
 Please see attached pages.

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) Barbara D. Meehan Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY <i>Barbara D. Meehan</i> (Signature of Contracting Officer)	16C. DATE SIGNED 11-28-2007

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

ADM002

The purpose of this modification is to make administrative changes to the contract as described below, to show estimated carryover amounts and authorized amounts for the current renewal period, and to substitute Dr. Yong Kim for Rosemary Reeves as the Program Element Manger for Preclosure Safety Evaluation. Accordingly, the following changes are hereby made:

1. Section B.2.E is revised to estimated carryover amounts for the current contract period as shown on attached change pages 9, 9a and 9b.
2. Section G.3.1.C is revised to show Dr. Yong Kim as the Program Element Manager Designee 2 in place of Rosemary Reeves as shown on attached change page 31a.

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

Cumulative total of NRC obligations for JC D1035 (HLW) \$2,762,990

This modification does not obligate funds.

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: \$241,828
INEEL ISFSI-2 Job Code: J5410 Amount: \$685,871.72	Diablo Canyon Job Code: J5390 Amount: \$490,960
Tunnel Fire Environment Job Code: J5434 Amount: \$66,132.25	Humboldt Bay Job Code: J5501 Amount: \$935,075
WIR DOE South Carolina and Idaho Job Code: J5543 Total: \$300,000 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 evaluation period applicable thereto 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		

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 \$2,762,990. In addition, carryover funds in the estimated amount of \$2,650,000 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: \$2,762,990
Estimated Carryover: \$2,000,000
Total: \$4,762,990

WIR DOE South Carolina and Idaho
Job Code: J5562
New Funds:
Estimated Carryover: \$400,000
Total: \$400,000

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

MacArthur Maze Fire
Job Code: J5608
New Funds:
Estimated Carryover: \$50,000
Total: \$50,000

SFST TAD
Job Code: J5606
New Funds:
Estimated Carryover: \$200,000
Total: \$200,000

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

High-Level Waste (HLW)
Job Code: D1035
Amount: \$4,762,990

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

WIR DOE South Carolina and Idaho
Job Code: J5562
Amount: \$400,000

MacArthur Maze Fire
Job Code: J5608
Amount: \$50,000

SFST TAD
Job Code: J5606
Amount: \$200,000

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

Airborne Transport of Radionuclides/ Redistribution of RN in Soil	Jack Guttman/ John Trapp Designee 1 James Rubenstone Designee 2	John Trapp
Degradation of Eng. Barriers	Sheena Whaley Tae Ahn Designee 1 James Rubenstone Designee 2	Sheena Whaley
Preclosure Safety Eval.	Sheena Whaley/ Yong Kim Designee 1 Dr. Yong Kim Designee 2 Robert Johnson Designee 3	Robert Johnson
Mechanical Disruption of Engineered Barriers	Sheena Whaley/ Mysore Nataraja Designee 1 James Rubenstone Designee 2	Mysore Nataraja
Methodology and Overall System Performance	Eugene Peters/ Bret Leslie Designee 1 James Rubenstone Designee 2	Bret Leslie
Biosphere Characteristics	Eugene Peters/ Keith Compton Designee 1 James Rubenstone Designee 2	Keith Compton
Support Reg. Framework	King Stablein/ Timothy McCartin Designee	Timothy McCartin
Hearing Support	King Stablein Brian Benny Designee	Brian Benny
Administrative Items - (Vol. 5)	Melanie Wong Kien Chang Designee	Kien Chang
<u>Spent Fuel Storage and Transportation</u>		
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
<u>Division of Waste Management and Environmental Protection</u>		
WIR DOE South Carolina and Idaho	Michael Fuller	Deborah DeMarco