

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE 5001R094	PAGE 1	OF PAGES 4
2. AMENDMENT/MODIFICATION NO. 154		3. EFFECTIVE DATE 5-18-2001	4. REQUISITION/PURCHASE REQ. NO. NMS-97-009 5/17/01		5. PROJECT NO. (if applicable)	
6. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts and Property Mgt. Attn: T-7-I-2 Contract Management Branch 2 Washington DC 20555		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southwest Research Institute 6220 Culebra road San Antonio TX 78228-0510 Attn: W. Patrick, President, CNWRA 210-522-5158, TIN 74-1070544				(X) 9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-02-97-009		
				10B. DATED (SEE ITEM 13) X 10-15-1987		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<p>The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended.</p> <p>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:</p> <p>(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment of 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.</p>						
12. ACCOUNTING AND APPROPRIATION DATA (If required) B&R: 1501530114, JC J5297, BOC: 252A Approp. 31X0200 Obligate: \$331						
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.) X 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 <input checked="" type="checkbox"/> is not, <input type="checkbox"/> 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.						
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> 15A. NAME AND TITLE OF SIGNER (Type or print) 15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign) </div> <div style="width: 48%;"> 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Barbara D. Meehan 16B. UNITED STATES OF AMERICA BY <u>Barbara D. Meehan</u> (Signature of Contracting Officer) </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 48%;">15C. DATE SIGNED</div> <div style="width: 48%;">16C. DATE SIGNED 05-18-2001</div> </div>						

The purpose of this modification is to provide funding in the amount of \$331 for Job Code J5297 and to add a new project officer. Accordingly, the following changes are made:

1. Sections B.2.C.b and d are revised to increase the obligated funds for CISF, JC J5297 by \$331, as shown on the attached change pages 5 and 6.
2. Section B.2.C.e is revised to increase the authorized funds for CISF, JC J5297 by \$331, as shown on the attached change page 7.
3. Section G.3.1.C is revised to add the name of Timothy Kobetz as the Project Officer for the Diablo Canyon ISFSI as shown on attached change page 28.

All other terms and conditions of this contract, including the ceiling amount for the second renewal period of \$87,611,477.00, remain the same.

A summary of new obligations for the second renewal period of this contract is given below:

Job Code D1035 (HLW)

Total FY97 obligation amount \$445,000 (see Spent Fuel (CIS) below)

Total FY98 obligation amount \$10,792,270 (Note that this reflects the \$19,000 which was obligated on Mod. 123, but not reflected in this summary)

Total FY99 obligation amount \$11,862,000.

Total FY99 deobligation amount \$183,756.57.

Total FY00 obligation amount \$12,971,071.

Total FY00 deobligation amount of \$100,000.

Total FY01 obligation amount of \$13,415,000.

Cumulative Total of NRC Obligations for JC 1035 (HLW) \$49,201,584.43.

Description of Changes Incorporated by Modification No. 154 to NRC-02-97-009

Page 3

Job Code D1035 (Spent Fuel (CIS))
Total FY97 obligation amount \$200,000
Total FY98 obligation amount \$250,000

Job Code J5297 (Spent Fuel (CIS))
Total FY00 obligation amount \$100,000
Total FY01 obligation amount \$331

Cumulative Total of NRC Obligations for CIS \$550,331.

Job Code J5164 (Tank Waste Remediation)

Total FY98 obligation amount \$250,000
Total FY99 obligation amount \$285,000
Total FY00 obligation amount \$840,000

Cumulative Total of NRC Obligations for JC J5164 \$1,375,000.

Job Code J5206 (Spent Fuel Dry Transfer)
Total FY97 obligation amount \$25,000.
Total FY98 obligation amount \$200,000.
Total FY98 deobligation amount \$33,000
Total FY99 obligation amount \$283,600
Total FY00 obligation amount \$135,000
Total FY01 deobligation amount \$45,000

Cumulative Total of NRC Obligations for JC J5206 \$565,600.

Job Code J5210 (Aluminum-Based Spent Fuels)
Total FY98 obligation amount \$125,000.

Cumulative Total of NRC Obligations for JC J5210 \$125,000

Job Code J5186 (TMI-2 Fuel Debris)

Total FY98 obligation amount \$208,000.
Total FY98 deobligation amount \$8,000.
Total FY99 obligation amount \$100,000
Total FY99 deobligation amount \$15,898.
Total FY01 obligation amount \$878.

Cumulative Total of NRC Obligations for JC J5186 \$284,980.

Description of Changes Incorporated by Modification No. 154 to NRC-02-97-009

Page 4

Job Code J5226 (Private Fuel Storage)
Total FY98 obligation amount \$158,000
Total FY99 obligation amount \$332,630
Total FY00 obligation amount \$443,920
Total FY01 obligation amount \$606,900

Cumulative Total of NRC Obligations for JC J5226 \$1,541,450.

Job Code J5324 (SKB Peer Review)
Total FY00 obligation amount \$9,987

Cumulative Total of NRC Obligations for JC J5324 \$9,987.

Job Code J5327 (Naval Spent Fuel)
Total FY00 obligation amount \$161,000
Total FY01 deobligation amount \$26,000

Cumulative Total of NRC Obligations for JC J5327 \$135,000.

This modification obligates funds in the amount of \$331.

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

High-Level Waste	Licensing Support System
Job Code: D1035	Job Code: L1590
Amount: \$ 44,662,918	Amount: \$35,900
Research	Waste Solidification Systems
Job Code: B6666	Job Code: L1793
Amount: \$ 15,584,461.47	Amount: \$642,391.87
	Job Code: J5190
	Amount: \$39,900
Transportation	Monitored Retrievable Storage
Job Code: D1070	Job Code: L2516
Amount: \$0	Amount: \$20,459.70
Tank Waste Remediation	Safety Review of TMI-2
Job Code: J5164	Job Code: J5186
Amount: \$772,035.00	Amount: \$158,290

Total amount authorized: \$ 61,916,356.04

f. The total award fee available; the award fee earned thus far and the evaluation period applicable thereto were as follows:

<u>Evaluation Period</u>	<u>Available Award Fee</u>	<u>Award Fee Earned</u>
11 9/27/92-4/9/93	\$309,465	259,951
12 4/10/93-9/24/93	347,645	316,673
13 9/25/93-9/30/94	709,894	668,010.43
14 10/1/94-9/29/95	817,617	793,088
15 9/30/95-9/27/96	665,948	645,970
16 9/28/96-9/26/97	556,736	528,899

Current Data

C. September 27, 1997 - September 27, 2002

- a. The total estimated ceiling amount of this Cost-Plus-Award-Fee type contract for the above mentioned period is \$87,611,477.00.
- b. The amount presently obligated by the Government with respect to this contract for this period is \$ 53,788,932.43. In addition, carryover funds in the amount of \$3,302,599.76 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/Project 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 then 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
Job Code: D1035
New Funds: \$ 49,485,341
Deob.: \$283,756.57
Carryover: \$1,989,455.71
Total: \$51,191,039.14

Waste Solidification Systems
Job Code: L1793
New Funds:
Carryover: \$2,763.35
Total: \$2,763.35

Tank Waste Remediation
Job Code: J5164
New Funds: \$1,375,000
Carryover: \$1,246,284.95
Total: \$2,621,284.95

Waste Solidification Systems
Job Code: J5190
New Funds:
Carryover: \$35,349.05
Total: \$35,349.05

Spent Fuel (TMI-2 Fuel Debris)
Job Code: J5186
New Funds: \$308,878
Deob.: \$23,898
Carryover: \$28,746.69
Total: \$313,726.69

Spent Fuel (Dry Transfer)
Job Code: J5206
New Funds: \$643,600
Deobligate: \$78,000
Carryover: \$0
Total: \$565,600

Aluminum-Based Spent Fuels
Job Code: J5210
New Funds: \$125,000
Total: \$125,000

Spent Fuel (CIS)
Job Code: D1035
New Funds: \$450,000
Total: \$450,000

Spent Fuel (PFS)*
Job Code: J5226
New Funds: \$1,541,450
Total: \$1,541,450

Spent Fuel (CIS)
Job Code: J5297
New Funds: \$100,331
Total: \$100,331

SKB Peer Review
Job Code: J5324
New Funds: \$9,987
Total: \$9,987

Naval Spent Fuel
Job Code J5327
New Funds: \$161,000
Deob: \$26,000
Total: \$135,000

Total New Funds Obligated for 2nd Renewal Period: \$54,200,587.00
Funds Deobligated during 2nd Renewal Period: 411,654.57
Net Obligated: \$53,788,932.43

*PFS is subject to the license fee recovery provisions located elsewhere in this contract.
The TAC number for this project is L22462.

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

High-Level Waste Job Code: D1035 Amount: \$47,000,000	Waste Solidification Systems Job Code: J5190 Amount: \$35,349.05 Job Code: L1793 Amount: \$2,763.35	
Tank Waste Remediation Job Code: J5164 Amount: \$2,548,584	Spent Fuel (TMI-2 Fuel Debris) Job Code: J5186 Amount: \$313,726.69	
Spent Fuel (Dry Transfer) Job Code: J5206 Amount: \$565,600	Spent Fuel (CIS) Job Code: D1035 Amount: \$450,000	
Aluminum-Based Spent Fuel Job Code: J5210 Amount: \$125,000	Spent Fuel (CIS) Job Code: J5297 Amount: \$100,331	
SKB Peer Review Job Code: J5324 Amount: \$9,987	Spent Fuel (PFS) Job Code: J5226 Amount: \$1,441,450	Naval Spent Fuel Job Code: J5327 Amount: \$135,000

Total amount authorized: \$52,692,442.04

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>
17 9/27/97-9/25/98	\$598,989	\$581,021
18 9/26/98-9/24/99	797,438	781,490
19 9/25/99-9/29/00	818,779	794,216
20 9/30/00-9/28/01		
21 9/29/01-9/27/02		

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 (NWPAct) sets forth the policy of the United States with regard to the management, storage and disposal of this nation's high-level radioactive waste from commercial and defense activities. The NWPAct charges the Department of Energy (DOE) as the lead Federal Agency to manage the siting, construction,

Yucca Mountain Draft Environmental Impact Statement (DEIS) (subtask)	James R. Firth	Francis (Skip) Young (Transportation Portion)
Hanford Tank Waste System (Operations Plan) Subtask 3.1.2 and 3.2.2 Subtask 3.1.4 Subtask 3.1.6 Subtask 3.2.1	Michael Tokar	Robert Shewmaker Rex Wescott Lydia Chang Makuteswara Srinivasan
Spent Fuels Project Office (Operations Plan) TMI-2 Fuel Debris Dry Transfer System Central Interim Storage Private Fuel Storage	Mark Delligatti	Michael Raddatz Steven L. Baggett Steven L. Baggett Michael D. Waters Mahendra Shah (Physical Security Task only)
Naval Spent Fuel Diablo Canyon ISFSI		Nancy Osgood Timothy J. Kobetz
DOE Aluminum-Based Spent Nuclear Fuels Disposition Program (Operations Plan)	Charles Greene	None

G.3.2 - Technical Assistance Sponsors

- A. The individuals listed in "C" below are hereby designated as Technical Assistance Sponsors. The individual Technical Assistance Sponsors have overall technical responsibility for the work placed at the CNWRA, within their respective areas, as detailed in paragraph C. below and are responsible for: (1) identifying, prioritizing and recommending work to be placed at the CNWRA; (2) monitoring the CNWRA's progress to ensure that work completed is commensurate with resources expended and is on schedule including surveillance and assessment of performance, and recommending to the NRC CO changes in requirements; (3) interpreting the scope of work as required; (4) performing technical evaluations as necessary; (5) performing technical reviews and acceptances as required; and (6) assisting the CNWRA in the resolution of technical problems encountered during performance. Within the purview of this authority the Technical Assistance Sponsors are authorized to review all costs requested for reimbursement by the CNWRA which are associated to their particular program area and submit recommendations for approval, disapproval, or suspension for supplies/services required under the contract to the NRC CNWRA PM. The NRC CO is responsible for directing or negotiating any changes in terms, conditions, or amounts cited in the contract and elements.
- B. The Technical Assistance Sponsors are not authorized to approve or request any action which results in or could result in an increase in contract cost; or terminate the contract, settle any claim or dispute arising under the contract or issue any unilateral directive whatsoever.