

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES
5000R071A,092,093 1 4

2. AMENDMENT/MODIFICATION NO. 138
3. EFFECTIVE DATE 5/10/2000
4. REQUISITION/PURCHASE REQ. NO. 3/20, 4/27, 5/3/00 PROJECT NO (If applicable) NMS-97-009
5. ISSUED BY CODE U.S. Nuclear Regulatory Commission
Division of Contracts and Property Mgt.
Attn: T-7-I-2
Contract Management Branch
Washington DC 20555
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, PO Drawer 28510
San Antonio, Texas 78228-0510
Wesley C. Patrick, President, CNWRA
210-522-5158 TIN # 74-1070544
9A. AMENDMENT OF SOLICITATION NO. (X)
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO
Con# NRC-02-97-009
SBA#
10B. DATED (SEE ITEM 13)
X 10-15-1987
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 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.

12. ACCOUNTING AND APPROPRIATION DATA (If required) See below

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
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.)

Blk. 12: 5060202822 J5327 252A 31X0200 Obligate \$161,000
05015202105 J5226 252A 31X0200 Obligate \$100,000
05015301129 D1035 252A 31X0200 Deobligate \$100,000

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)
15B. CONTRACTOR/OFFEROR
(Signature of person authorized to sign)
15C. DATE SIGNED
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
Barbara D. Meehan
16B. UNITED STATES OF AMERICA
BY *Barbara D. Meehan*
(Signature of Contracting Officer)
16C. DATE SIGNED
05-10-2000

Template = ADM-001

ADMO2

The purpose of this modification is to obligate \$161,000 and confirm the authorization of \$35,000 (via e-mail dated 3/21/00) for the Naval Spent Fuel project (JC J5327), to obligate \$100,000 for PFS (JC J5226), to deobligate \$100,000 from the HLW program (JC D1035), to change the project officer for the CIS project, and to add a project officer for the Naval Spent Fuel project. Accordingly, the following revisions are made:

Sections B.2.C.b and d are revised to show the obligation of \$161,000 under new Job Code J5327, to show an obligation of \$100,00 under Job Code J5226, and to show a deobligation of \$100,000 under Job Code D1035 (HLW) as indicated on the attached change pages 5 and 6.

Section B.2.C.e is revised to show the authorization for the Naval Spent Fuel project of \$35,000 in Job Code J5327 as shown on the attached change page 7.

Section G.3.1 is revised to show a change in the project officer for the CIS project and to add a project officer for the Naval Spent Fuel project as shown on attached change page 29

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 \$12,955,000.

Total FY00 deobligation amount of \$100,000.

Cumulative Total of NRC Obligations for JC 1035 (HLW) \$35,770,513.43.

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

Cumulative Total of NRC Obligations for CIS \$550,000.

Job Code J5164 (Tank Waste Remediation)

Total FY98 obligation amount \$250,000
Total FY99 obligation amount \$285,000
Total FY00 obligation amount \$365,000

Cumulative Total of NRC Obligations for JC J5164 \$900,000.

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

Cumulative Total of NRC Obligations for JC J5206 \$610,600.

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.

Cumulative Total of NRC Obligations for JC J5186 \$284,102.

Job Code J5226 (Private Fuel Storage)

Total FY98 obligation amount \$158,000
Total FY99 obligation amount \$332,630
Total FY00 obligation amount \$300,000

Cumulative Total of NRC Obligations for JC J5226 \$790,630.

Description of Changes Incorporated by Modification No. 138 to NRC-02-97-009

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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

Cumulative Total of NRC Obligations for JC J5327 \$161,000.

This modification obligates \$261,000 and deobligates \$100,000 in FY2000 funds.

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

High-Level Waste Job Code: D1035 Amount: \$ 44,662.918	Licensing Support System Job Code: L1590 Amount: \$35,900
Research Job Code: B6666 Amount: \$ 15,584,461.47	Waste Solidification Systems Job Code: L1793 Amount: \$642,391.87 Job Code: J5190 Amount: \$39,900
Transportation Job Code: D1070 Amount: \$0	Monitored Retrievable Storage Job Code: L2516 Amount: \$20,459.70
Tank Waste Remediation Job Code: J5164 Amount: \$772,035.00	Safety Review of TMI-2 Job Code: J5186 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 \$ 39,201,832.43. 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: \$ 36,054,270 Deob.: \$283,756.57 Carryover: \$1,989,455.71 Total: \$37,759,969.14	Waste Solidification Systems Job Code: L1793 New Funds: Carryover: \$2,763.35 Total: \$2,763.35
Tank Waste Remediation Job Code: J5164 New Funds: \$900,000 Carryover: \$1,246,284.95 Total: \$2,146,284.95	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: \$308,000 Deob.: \$23,898 Carryover: \$28,746.69 Total: \$312,848.69	Spent Fuel (Dry Transfer) Job Code: J5206 New Funds: \$643,600 Deobligate: \$33,000 Carryover: \$0 Total: \$610,600
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: \$790,630 Total: \$790,630	Spent Fuel (CIS) Job Code: J5297 New Funds: \$100,000 Total: \$100,000
SKB Peer Review Job Code: J5324 New Funds: \$9,987 Total: \$9,987	Naval Spent Fuel Job Code J5327 New Funds: \$161,000 Total: \$161,000

Total New Funds Obligated for 2nd Renewal Period:	\$39,542,487.00
Funds Deobligated during 2nd Renewal Period:	340,654.57
Net Obligated:	\$39,201,832.43

*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: \$36,069,629	Waste Solidification Systems Job Code: J5190 Amount: \$35,349.05 Job Code: L1793 Amount: \$2,763.35	
Tank Waste Remediation Job Code: J5164 Amount: \$2,146,284.95	Spent Fuel (TMI-2 Fuel Debris) Job Code: J5186 Amount: \$312,849	
Spent Fuel (Dry Transfer) Job Code: J5206 Amount: \$573,001	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: \$100,000	
SKB Peer Review Job Code: J5324 Amount: \$9,987	Spent Fuel (PFS) Job Code: J5226 Amount: \$690,630	Naval Spent Fuel Job Code: J5327 Amount: \$35,000

Total amount authorized: \$40,550,493.35

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		
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 (NWPAA) 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 NWPAA 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 Naval Spent Fuel	Mark Delligatti	Michael Raddatz Steven L. Baggett Steven L. Baggett Marissa Bailey Nancy Osgood
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.