

05024

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE FFS# RES-C97-343	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. 97	3. EFFECTIVE DATE 12/23/96	4. REQUISITION/PURCHASE REQ. NO. RFPA RES-93-005 dtd. 12/12/96	5. PROJECT NO. (If applicable)
6. ISSUED BY U. S. Nuclear Regulatory Commission Division of Contracts, M/S T-712 Washington, DC 20555		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code) Southwest Research Institute 6220 Culebra Road Post Office Drawer 28510 San Antonio, Texas 78228-0510 Wesley C. Patrick, President, CNWRA (210) 522-5158 TIN# 74-1070544		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. X NRC-02-93-005 10B. DATED (SEE ITEM 13) 10/15/87	
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. Offerors 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)
Transfer from B6666 to D1035 \$2,143,333.89 BOC 252A Approp. 31X0200.560

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	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. 52.243-2 Changes - Cost Reimbursement
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, 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.

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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	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Barbara D. Meehan</u> (Signature of Contracting Officer)	16C. DATE SIGNED 1/6/97
(Signature of person authorized to sign)			

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

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PDR CONTR
NRC-02-93-005 PDR

The purpose of this modification is to transfer \$2,143,333.89 from Job Code B6666 to Job Code D1035, to revise authorized amounts, to delete three names from the list of key personnel, and to change the PEM and one of the Project Officers for the TSPA & I key technical issue. Accordingly, the following changes are made:

Revise Section B.2.B.d to transfer \$2,143,333.89 from Job Code B6666 to Job Code D1035 as shown on the attached page 4.

Revise Section B.2.B.e to revise the amount authorized in Job Code B6666 as shown on the attached page 5.

Revise Section G.3.1.C to change the PEM and one of the POs for key technical issue TSPA&I as shown on the attached page 26 (effective December 1, 1996)

Revise the list of key personnel in Section H.1.A as shown on the attached page 35.

All other terms and conditions of this contract, including the ceiling amount for the renewal period of \$89,898,141.00, remain the same.

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

Job Code D1035 (HLW)

Total FY92 obligation amount \$1,640,300
Total FY93 obligation amount \$8,025,000
Total FY94 obligation amount \$9,373,700
Total FY94 deobligation amount \$56,000
Total FY95 obligation amount \$9,933,000
Total FY96 obligation amount \$9,550,400
Total FY96 deobligation amount \$25,000
Total FY97 obligation amount \$6,703,000
Amount transferred from B6666 \$2,143,333.89

Cumulative Total of NRC Obligations for JC 1035 \$47,287,733.89.

Job Code L1590 (LSS)

Total FY92 obligation amount \$50,000.
Total FY93 deobligation amount \$55,259.71.
Cumulative Total of NRC Obligations for JC L1590 \$50,000.
Cumulative Total of NRC Deobligations for JC L1590 \$55,259.71 (Note that since this exceeds the amount obligated for the renewal period, funds in the amount of \$5,259.71 will be deobligated from funds obligated in the first five year period of the contract.)

Job Code L1793 (WSS)

Total FY93 obligation amount \$60,000.
Total FY95 obligation amount \$242,000.
Total FY96 obligation amount \$125,000.
Total FY97 obligation amount \$40,000.
Cumulative Total of NRC Obligations for JC L1793 \$467,000.

Job Code B6666 (Research)

Total FY93 obligation amount \$4,983,000
Total FY94 obligation amount \$5,733,000
Total FY95 obligation amount \$5,795,000
Amount transferred to D1035 \$2,143,333.89
Cumulative Total of NRC Obligations for JC B6666 \$14,367,666.11.

Job Code L2516 (MRS)

Total FY96 deobligation amount \$35,771.68
Cumulative Total of NRC Obligations for JC2516 \$0
Cumulative Total of NRC Deobligations for JC2516 \$35,771.68 (Deobligated from carryover funds from the first 5 year contract period)

Job Code D1070 (TRS)

Total FY96 deobligation amount \$31,857.13
Cumulative Total of NRC Obligations for JCD1070 \$0
Cumulative Total of NRC Deobligations for JCD1070 \$31,857.13 (Deobligated from carryover funds from the first 5 year contract period)

Description of Changes Incorporated by Modification 97 to NRC-02-93-005

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Job Code J5164 (TWR)

Total FY97 obligation amount \$1,249,466.00

Cumulative Total of NRC Obligations for J5164 \$1,249,466.00

This modification transfers \$2,143,333.89 from Job Code B6666 to Job Code D1035.

B.1 Brief Description of Work and Placement of Work Information

Southwest Research Institute (SwRI or contractor) shall perform all work required by Nuclear Regulatory Commission (NRC) within the purpose, scope, mission, and/or special competency of the Center for Nuclear Waste Regulatory Analyses (CNWRA or Center) as described under Section C, the then current Operations/Project Plans, and the Charter (Attachment 2) with few exceptions. Those exceptions, which are established by NRC Policy, are outlined in Attachment 2a.

In addition to the work mentioned above, the Center may perform work for others, or NRC, within its purpose, scope, mission, and/or special competency, as approved by NRC, consistent with the provisions of Federal Acquisition Regulations (FAR) Subsection 35.017 and procedures for authorization and conduct of such work, as set forth in Attachment 16. Upon receipt of a directive from the Contracting Officer (CO), the contractor shall prepare detailed Operations/Project Plans and appropriate spending plans. The CO will issue a directive authorizing performance in accordance with approved Operations/Project Plans. Procedures for Placing and Revising Work are included as Attachment 1.

B.2 Consideration and Obligation

A. October 15, 1987 - October 14, 1992

a. The total estimated ceiling amount of this Cost-Plus-Award-Fee type contract for the above mentioned period is \$44,803,009.

b. The amount presently obligated by the Government with respect to this contract for this period is \$44,589,684, of which the sum of \$41,286,744 represents estimated reimbursable costs, and of which \$3,302,940 represents the available award fee. The base fee remains 0.

The award fee pool will be as stated in the Award Fee Determination Plan (AFDP). The AFDP will reflect the actual fee pool based on cumulative estimated costs for performance of approved Operations/Project Plans.

c. Evaluation of the award fee earned will be accomplished in accordance with the then current AFDP, see 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 the FAR Subpart 52.233-1, entitled "Disputes."

d. Total funds currently obligated by Job Code (JC) are as follows:

High-Level Waste
JC: D1035
AMOUNT: \$31,303,604

Transportation
JC: D1070
AMOUNT: \$ 596,200

Research
JC: B6666
AMOUNT: \$11,662,000

Licensing Support System
JC: L1590
AMOUNT: \$ 508,880

Waste Solidification Systems
JC: L1793
AMOUNT: \$ 419,000

Monitored Retrievable Storage
JC: L2516
AMOUNT: \$ 100,000

Total amount obligated: \$44,589,684

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

High-Level Waste
JC: D1035
AMOUNT: \$31,203,604

Transportation
JC: D1070
AMOUNT: \$ 596,200

Research
JC: B6666
AMOUNT: \$11,662,000

Licensing Support System
JC: L1590
AMOUNT: \$ 508,880

Waste Solidification Systems
JC: L1793
AMOUNT: \$ 419,000

Monitored Retrievable Storage
JC: L2516
AMOUNT: \$ 50,000

Total amount authorized: \$44,439,684

- 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>
Oct. 15, 1987 - Apr. 14, 1988	\$102,009	\$102,009
Apr. 15, 1988 - Oct. 14, 1988	\$158,444	\$138,639
Oct. 15, 1988 - Apr. 14, 1989	\$275,870	\$275,870
Apr. 15, 1989 - Oct. 14, 1989	\$296,996	\$278,434
Oct. 15, 1989 - Apr. 14, 1990	\$318,735	\$290,846
Apr. 15, 1990 - Oct. 14, 1990	\$445,789	\$417,930
Oct. 15, 1990 - Apr. 14, 1991	\$450,777	\$394,430
Apr. 15, 1991 - Oct. 14, 1991	\$424,240	\$413,634
Oct. 15, 1991 - Apr. 14, 1992	\$482,533	\$473,486
Apr. 15, 1992 - Sept. 26, 1992	\$299,452	\$290,094

Note that some of the funds which were obligated and authorized during the base contract period are shown as carryover funds in Section B.2.B.

B. October 15, 1992 - September 26, 1997

- The total estimated ceiling amount of this Cost-Plus-Award-Fee type contract for the above mentioned period is \$89,898,141.
- The amount presently obligated by the Government with respect to this contract for this period is \$63,304,237.19. In addition, carryover funds in the amount of \$2,939,101.64 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, see 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: \$ 45,225,400.00
Carryover: 1,439,917.55
Deobligation: 81,000.00
Transferred from
B6666: 2,143,333.89
Total: 48,727,651.44

Licensing Support System
Job Code: L1590
New Funds: \$ 50,000.00
Carryover: 18,908.35
Deobligation: 55,259.71

Total: 13,648.64

Transportation
Job Code: D1070
New Funds: \$ 0
Carryover: 31,857.13
Deobligation: 31,857.13
Total: 0

Waste Solidification Systems
Job Code: L1793
New Funds: \$ 467,000.00
Carryover: 175,391.87

Total: 642,391.87

Research
Job Code: B6666
New Funds: \$ 16,511,000.00
Carryover: 1,216,795.36
Transferred to
D1035: 2,143,333.89
Total: 15,584,461.47

Monitored Retrievable Storage
Job Code: L2516
New Funds: \$ 0
Carryover: 56,231.38

Deobligation: 35,771.68
Total: 20,459.70

Tank Waste Remediation
Job Code: J5164
New Funds: \$1,249,466.00
Carryover: \$0
Total: \$1,249,466.00

Total New Funds Obligated for Renewal Period: \$ 63,502,866.00
New Funds Deobligated During Renewal Period: 198,628.81
Previously Obligated Funds Deobligated During
Renewal Period: 5,259.71

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

High-Level Waste	Licensing Support System
Job Code: D1035	Job Code: L1590
Amount: \$ 39,422,917.55	Amount: \$35,900
Research	Waste Solidification Systems
Job Code: B6666	Job Code: L1793
Amount: \$ 15,584,461.47	Amount: \$642,391.87
Transportation	Monitored Retrievable Storage
Job Code: D1070	Job Code: L2516
Amount: \$0	Amount: \$20,459.70
Tank Waste Remediation	
Job Code: J5164	
Amount: \$560,000.00	
Total amount authorized: \$ 56,266,130.59	

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>
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	
16 9/28/96-9/26/97		

B.3 Remittance Address

Southwest Research Institute
P.O. Drawer 841671
San Antonio, Texas 75284-1671

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,

<u>COPS/KTI Subtasks</u>	<u>Program Element Manager</u>	<u>Project Officer</u>
Evolution of Near-Field Environment (Subtasks 561, 562, 563)	Bret W. Leslie	None
Container Life & Source Term (Subtasks 571, 572, 573)	Kien Chang	None
Thermal Effects on Flow (Subtasks 661, 663)	Jeffrey Pohle	None
Repository Design & Thermal-mechanical Effects (Subtask 671)	Banad Jagannath	None
TSPA & Technical Integration Consolidated Document System (Subtasks 761, 762, 763, 764)	Keith McConnell	Christiana Lui (Subtasks 761, 762, 763) John Thoma (Subtask 764)
Revision to EPA and NRC Regulations (Subtask 771)	Tim McCartin	None
Isothermal Flow (Subtasks 861, 863, 864)	Neil Coleman	None
Radionuclide Transport (Subtask 871)	John Bradbury	None
Waste Solidification Systems (Operations Plan)	Gary Comfort	None
Hanford Tank Waste System Subtasks 1.1, 1.2, 1.5, 1.8 Subtasks 1.3, 1.4, 1.6, 1.7	Lydia A. Roche	Joan Higdon Richard I. Milstein

4. Contractor's Financial institutions. 9-digit ABA identifying number for routing transfer of funds.
 5. Telegraphic abbreviation of contractor's financial institution.
 6. Account number at contractor's financial institution if it receives electronic funds transfer messages through the Federal Reserve Communications System.
 7. Name and address of the correspondent financial institution if the contractor's financial institution does not receive electronic funds transfer messages through the Federal Reserve Communications System.
 8. Correspondent financial institution's 9-digit ABA identifying number for routing transfer of funds.
 9. Telegraphic abbreviation of correspondent financial institution.
 10. Signature and title of person supplying this information.
- C. Any changes to the information furnished under paragraph (B) of this clause shall be furnished to the Contracting Officer in writing. It is the contractor's responsibility to furnish these changes promptly to avoid payments to erroneous bank accounts.

Section H - Special Contract Requirements

H.1 Key Personnel

- A. The following individuals are considered to be essential to the successful performance of the work hereunder. Additional key personnel may be designated by the CO in individual work directives issued hereunder.

W. Patrick	L. McKague	H. Garcia
A. Chowdhury	B. Hill	P. Mackin
J. Russell	P. Lichtner	B. Sagar
M. Jarzempa	G. Cragnolino	W. Murphy
N. Sridhar	S. Hsiung	D. Turner
C. Connor	R. Pabalan	E. Percy
R. Baca	D. Ferrill	G. Wittmeyer
R. Green	B. Mabrito	S. Stothoff
J. Stamatakis	S. Mohanty	