AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1 CONTRACT ID CODE 5001R028/044	PAGE OF PAGE:
2 AMENDMENT/MODIFICATION NO	3 EFFECTIVE DATE 12/23/2000	4 REQUISITION/PURCHASE REQ NO 5 PROJECT NO 11f applicable: NMS-97-009 12/20, 22		
147	12/23/2000	7 ADMINISTERED BY (If other I		<u> </u>
U.S. Nuclear Regulatory Commission Division of Contracts and Property Mgt Attn: T-7-I-2 Contract Management Branch 2 Washington DC 20555	CODE :	. ADMINISTERED BT III OWNER I	nan nem 9)	CODE · · -
8 NAME AND ADDRESS OF CONTRACT	into State and December		(X) 9A AMENDMENT OF	SOLICITATION NO
•				
Southwest Research Institute 6220 Culebra Road Post Office Drawer 28510			98 DATED (SEE ITE	
San Antonio, Texas 78228-0510 Wesley C. Patrick, President, CNWRA			Con# NRC-	OF CONTRACT/ORDER NO 02-97-009
			108 DATED (SEE IT)	EM 13)
CODE	FACILITY CODE	AMENDMENTS OF	X 10-15-1987	
11. ГН	S ITEM ONLY APPLIES TO	AMENDMENTS OF	SOLICITATIONS	
	PLACE DESIGNATED FOR THE R I by virtue of this amendment you de rietter makes reference to the solicil See Below M APPLIES ONLY TO MOD FIES THE CONTRACT/ORD Specify authorit. THE CHANGES SET FORTH CORRIGED TO REFLECT THE ADMINISTRATIVE OF	RECEIPT OF OFFERS PRICES IN THE COMMENT OF THE COMENT OF THE COMMENT OF THE COMENT OF THE COMMENT OF THE COMMEN	OR TO THE HOUR AND ady submitted, such cha and is received prior to the and the submitted prior to the and the submitted prior to the sub	DATE SPECIFIED MAY inge may be made the opening hour
C THIS SUPPLEMENTAL AGREEMENT IS ENTERED I	NTO PURSUANT TO AUTHORITY OF			
DIOTHER (Specify type of modification and authority				
E. IMPORTANT: Contractor x is not	is required to sign this docum	ent and return	_ copies to the issuing o	ffice.
14 DESCRIPTION OF AMENDMENT MODIFICATION (1998) Blk 12 Obligate \$146,000 B&R 1501 Obligate \$878 B&R 1501530		A Approp 31X0200	ible I	
Please see attached pages				
				·
Except as provided herein, all terms and conditions of the documents	nent referenced in Item 9A or 10A as heretofore o	changed iremains unchanged and in f	'ull force and effect	
15A NAME AND TITLE OF SIGNER Type or prints		16A NAME AND TITLE OF CONT	RACTING OFFICER (Type	or print)
		Barbara D. Meehan	l	
158 CONTRACTOR/OFFEROR	NO DATE SIGNED	16B UNITE 1 STATES OF AMERI	CA C	160 DATE SIGNED
(Signature of person authorized to sign	· ·	37 J. W. Wignatur	e of Contracting Officer)	12-23-2000

STANDARD FORM 30 (REV. 10-83)

Page 2

The purpose of this modification is to obligate \$146,000 to Job Code J5226, to obligate \$878 to Job Code J5186, to increase the authorizations for HLW, TWRS, PFS, and Naval Spent Fuel (note that these increases are inclusive of the amounts increased by letter dated 9/29/00 and e-mails dated 11/28/00 and 12/22/00. Also, please note that the increase to the Naval Spent Fuel authorization is less than the amount previously authorized in the 9/29/00 letter), to add a Project Officer for the Physical Security task under PFS, and to insert the award fee pool and award fee earned for period 19. Accordingly, the following revisions are made:

Sections B.2.C.b and d are revised to show the obligation of \$146,000 to Job Code J5226 and an obligation of \$878 to Job Code J5186 as indicated on the attached change pages 5 and 6.

Section B 2 C.e is revised to show an increase in the authorization of Job Code D1035 (Repository Program) of \$4.930.371 to a total of \$43.0000, an increase of \$8,351.71 to a total of \$2,533.830 for TWRS Job Code J5164, an increase of \$877.69 to a total of \$313,726.69 for TMI2 Job Code J5186, an decrease of \$7,401 to a total of \$565,600 for DTS Job Code J5206 (reflecting the deobligation which occurred in modification no. 146), an increase of \$387,445 to a total of \$1,330.550 for PFS Job Code J5226, and an increase of \$24,522 to a total of \$139.991 for Naval Spent Fuel Job Code J5327 as shown on the attached change page 7.

Section B.2.C.f is revised to show the award fee pool and award fee earned for evaluation period 19 as shown on attached change page 7

Section G 3.1.C is revised to add a project officer, Mahendra Shah, to PFS for the new physical security task as shown on the attached change page 29.

Attachment 11, Award Fee Determination Plan, is revised to change page 9 to reflect the award fee pool for evaluation period 19, as shown on the attached change page.

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. 147 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 Fuei (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 \$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. 147 to NRC-02-97-009

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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 \$396,000

Cumulative Total of NRC Obligations for JC J5226 \$1,330,550.

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 \$146,878 in FY2001 funds.

NRC-02-97-009 Modification No. 147 Page 5

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

High-Level Waste

Licensing Support System

Job Code: D1035 Amount: \$44,662,918 Job Code: L1590 Amount: \$35,900

Research

Waste Solidification Systems

Job Code: B6666 Amount: \$ 15,584,461.47 Job Code: L1793 Amount: \$642,391.87 Job Code: J5190

Amount: \$39,900

Transportation

Monitored Retrievable Storage

Job Code: D1070 Amount: \$0

Job Code: L2516 Amount: \$20,459.70

Tank Waste Remediation

Safety Review of TMI-2 Job Code: J5186

Job Code: J5164 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:

C. September 27, 1997 - September 27, 2002

- The total estimated ceiling amount of this Cost-Plus-Award-Fee type contract for a. the above mentioned period is \$87,611,477.00.
- The amount presently obligated by the Government with respect to this contract for b. this period is \$53,603,701.43. 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

Tank Waste Remediation

Job Code: J5164

New Funds: \$1,375,000

Carryover: \$1,246,284.95 Total: \$2,621,284.95

Spent Fuel (TMI-2 Fuel Debris)

Job Code: J5186

New Funds: \$308.878

Deob. \$23,898

Carryover: \$28,746.69 Total: \$313,726.69

Aluminum-Based Spent Fuels

Job Code: J5210 New Funds: \$125.000

Total: \$125,000

Spent Fuel (PFS)*
Job Code: J5226

New Funds: \$1,330,550

Total: \$1,330,550

SKB Peer Review
Job Code: J5324

New Funds: \$9.987

Total: \$9.987

Waste Solidification Systems

Job Code: L1793

New Funds:

Carryover: \$2,763.35

Total: \$2,763.35

Waste Solidification Systems

Job Code: J5190 New Funds:

Carryover: \$35,349.05

Total: \$35,349.05

Spent Fuel (Dry Transfer)

Job Code: J5206 New Funds: \$643,600 Deobligate: \$78,000

Carryover: \$0 Total: \$565,600

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

Total: \$450,000

Spent Fuel (CIS)

Job Code: J5297

New Funds: \$100,000

Total: \$100,000

Naval Spent Fuel

Job Code J5327

New Funds: \$161,000

Total: \$161,000

Total New Funds Obligated for 2nd Renewal Period: \$53,989,356.00

Funds Deobligated during 2nd Renewal Period:

385,654.57

Net Obligated:

\$53,603,701.43

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

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

High-Level Waste Job Code: D1035 Amount: \$43,000,000 Waste Solidification Systems

Job Code: J5190 Amount: \$35,349.05 Job Code: L1793 Amount: \$2,763.35

Tank Waste Remediation

Job Code: J5164 Amount: \$2.533,830 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: \$100,000

SKB Peer Review Job Code J5324 Amount \$9.987 Spent Fuel (PFS)
Job Code: J5226
Amount: \$1,330,550

Naval Spent Fuel Job Code: J5327 Amount: \$139,991

Total amount authorized: \$48,571,448.04

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

Section o - pescripadinopolineaudistroix oracoment

C.1 <u>Statement of Work for Operation of the Center for Nuclear Waste</u> 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 (NWPA) 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 NWPA charges the Department of Energy (DOE) as the lead Federal Agency to manage the siting, construction

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Yucca Mountain Draft Environmental Impact Statement (DEIS) (subtask)-James R. Firth

Francis (Skip) Young (Transportation Portion)

Hanford Tank Waste System Michael Tokar

(Operations Plan)

Subtask 3.1.2 and 3.2.2

Subtask 3.1.4 Subtask 3.1.6 Subtask 3.2.1

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)

Nancy Osgood

Naval Spent Fuel

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.

The Technical Assistance Sponsors are not authorized to approve or request any B. 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.