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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE NRC-04-94-036	PAGE 1	OF PAGES 2
2. AMENDMENT/MODIFICATION NO. M008	3. EFFECTIVE DATE APR 30 1998	4. REQUISITION PURCHASE REQ. NO. RES-C98-051	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts & Property Mgmt. Contract Management Branch 1 Mail Stop T-7-1-2 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) Board of Regents of the University of Wisconsin System Attn: Ms. Cheryl E. Gest, Admin Officer 750 University Avenue Madison WI 53706-1490		
9A. AMENDMENT OF SOLICITATION NO.		(X) 9B. DATED (SEE ITEM 11)		
10A. MODIFICATION OF CONTRACT/ORDER NO. Con# NRC-04-94-036		10B. DATED (SEE ITEM 13) X 04-26-1994		

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)

B&R No. 86015211025; Job Code W6183; BOC No. 252A
Appn No. 31X0200.860; Amount Obligated \$50,000.00

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 By mutual agreement of the parties.
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor _____ is not, ☒ is required to sign this document and return 2 _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Please see the attached page.

15A. NAME AND TITLE OF SIGNER (Type or print) Cheryl E. Gest, Admin. Officer Research & Sponsored Programs		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Mary H. Mace Contracting Officer	
15B. CONTRACTOR/OFFEROR <i>Cheryl E. Gest</i> (Signature of person authorized to sign)	15C. DATE SIGNED APR 30 1998	16B. UNITED STATES OF AMERICA BY <i>Mary H. Mace</i> (Signature of Contracting Officer)	16C. DATE SIGNED 4/30/98
9805210137 980430 PDR CONTR NRC-04-94-036 PDR		STANDARD FORM 30 (REV. 10-83)	

The purpose of this modification is to (1) provide within scope changes which shall be performed in accordance with the attached Statements of Work and the contractor's technical proposals dated 04/06/98 and 04/27/98, (2) increase the contract ceiling and obligated amounts by \$50,000 from \$436,940 to \$486,940, and (3) extend the period of performance through December 31, 1998.

1. The attached Statements of Work are hereby incorporated as part of Section C.1 of the contract.

2. Under Section B.3. Consideration and Obligation--Cost Reimbursement (JUN 1988). Alternate I. (JUN 1988) paragraphs (a) and (b) are deleted in their entirety and the following paragraphs are substituted in lieu thereof:

"(a) The total estimated cost to the Government for full performance under this contract is \$486,940."

(b) The amount presently obligated by the Government with respect to this contract is \$486,940."

3. Section F.6. Duration of Contract Period. is deleted in its entirety and the following is substituted in lieu thereof:

"This contract shall commence on 04/26/94 and will expire on 12/31/98."

A summary of obligations for this contract, from award date through the date of this action, are given below:

Total FY94 Obligation Amount:	\$136,000.00
Total FY95 Obligation Amount:	\$135,940.00
Total FY96 Obligation Amount:	\$ 75,000.00
Total FY97 Obligation Amount:	\$ 90,000.00
Total FY98 Obligation Amount:	\$ 50,000.00

Cumulative Total NRC Obligation Amount: \$486,940.00

This modification obligates FY97 funds in the amount of \$50,000.00."

All other terms and conditions of the subject contract remain unchanged.

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT MODIFICATION

C.3 SCOPE OF WORK

Task 1: WFCI Experiments

Terminate the conduct of further iron oxide FCI experiments and report the results of experiments conducted thus far (both iron oxide and tin simulants) in a NUREG/CR report. The termination is necessitated due to a budget cut.

Task 5: Technical Assistance to NRC

Present the research findings from the iron oxide FCI experiments at the CSARP meeting in May 1998.

Revise the completion dates of the existing open tasks as follows:

<u>Task</u>	<u>Date</u>	<u>Revised Date</u>
1 (WFCI Experiments)	04/30/98	10/31/98
3 (NRC Support for KROTOS and FARO)	04/30/98	10/31/98
5 (Technical Assistance to NRC)	04/30/98	10/31/98

(Tasks 2 and 4 have been completed.)

Revise the existing deliverable schedule as follows:

<u>Deliverable</u>	<u>Date</u>	<u>Revised Date</u>
Draft NUREG/CR report (Task 1)	02/28/98	08/31/98
Final NUREG/CR report (Task 1)	04/30/98	10/31/98

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT MODIFICATION

C.3 SCOPE OF WORK

Add the following task to the contract:

Task 6: IFCI Assessment

The recently completed peer review of the integrated fuel-coolant interaction code, IFCI, identified a number of areas in which further improvements were warranted. Sandia National Laboratories (SNL), the developer of IFCI, has since modified the code incorporating improvements in some of the identified areas. It is now necessary to perform an assessment of IFCI to determine how the overall predictive capability of IFCI has improved. The contractor shall perform an assessment of IFCI against a set of 10 experiments selected from the following matrix and approved by the NRC Project Manager:

FARO quenching experiments L-14, L-20, L-28
KROTOS steam explosion experiments K-21, K-26, K-42, K-52
WFCI steam explosion experiments WFCI-D4, WFCI-H3, WFCI-H4
ZREX chemical augmentation experiments ZREX-19, ZREX-20, ZREX-34, ZRSS-10

The set of 10 experiments shall be so selected as to allow an assessment of the major modeling features in IFCI. These include: mixing, jet and particle breakup, quenching, oxidation and hydrogen generation, and shock wave propagation. The contractor shall also prepare an assessment report documenting the work under this task.

Estimated completion date: 12/31/98
Estimated level of effort: 6.0 staff-months

Add the following deliverable in the schedule:

<u>Deliverable</u>	<u>Date</u>
IFCI assessment report (Task 6)	12/31/98