<u> </u>				ONTRACT ID CODE		10105 05
AMENDMENT OF SOLICITATION/	MODIFICATION OF	CONTRACT		RC-04-99-040	-	PAGE OF
2 AMENDMENT/MODIFICATION NO	3 EFFECTIVE DATE	4 REQUISITION/PURCHASE RE RES-99-040	Q NO		5. PROJECT NO RES-C00	
6 ISSUED BY CODE U.S. Nuclear Regulatory Commission Division of Contracts and Property Mgt. Attn: T-7-I-2 Contract Management Branch 1 Washington DC 20555	DEC 2 4 1535	7 ADMINISTERED BY (If other	than iter	m 6)	CODE	· · · · · · · · · · · · · · · · · · ·
8 NAME AND ADDRESS OF CONTRACTOR (No , street, county, State	and ZIP Code)		(X)	9A. AMENDMENT	OF SOLICITATION P	NO.
Oregon State University Contract Administration				98. DATED (SEE	ITEM 11)	
Attn: Mr. Clem LaCava, Asst Con Mgr 306 Kerr Administration Building Corvallis OR 97331-2147				10A. MODIFICATION OF CONTRACT/ORDER NO Con# NRC-04-99-040		
				10B DATED (SEI	E ITEM 13)	
	FACILITY CODE	AMENDMENTS OF	X	02-01-199		
(a) By completing Items 8 and 15, and returning offer submitted; or (c) By separate letter or telegram wh KNOWLEDGMENT TO BE RECEIVED AT THE PLACE RESULT IN REJECTION OF YOUR OFFER. If by virtu by telegram or letter, provided each telegram or letter m	ich includes a reference to DESIGNATED FOR THE e of this amendment you d	the solicitation and amender RECEIPT OF OFFERS PRIC esire to change an offer alre	nent nu DR TO adv su	umbers. FAILUI THE HOUR AN Ibmitted, such c	RE OF YOUR A ND DATE SPEC change may be	AC- CIFIED MAY made
and date specified. 2 ACCOUNTING AND APPROPRIATION DATA (If required) B& App	R No.: 06015110135; Jo n. No.: 31XO200.060; A	b Code: W6699; BOC No mount Obligated: \$250,0	o.: 25 00.00	2A;		
13. THIS ITEM APP	LIES ONLY TO MOD	DIFICATIONS OF CO	NTR/	ACTS/ORDE	RS,	
		DER NO. AS DESCR				
X) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO. (Specify au	thority) THE CHANGES SET FORT	TH IN ITEM 14 ARE MADE IN THE CO	NTRACT	ORDER NO IN ITE	M 10A	
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR	REFLECT THE ADMINISTRATIVE C 43.103(b)	HANGES (such as changes in p	baying of	fice, appropriation da	ite, etc.)	
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSU						
D. OTHER (Specify type of modification and authority)		By mutual agreement of th	e part	ICS.		
	required to sign this docum	ent and return <u>2</u>		es to the issuing	office.	

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	Asst Contract Administrator	······································	14. NAME AND TITLE OF CONTRACTING OFFICER (Ty) Unary H. Mace Contracting Officer	pe or print)
158. CONTRACTOR/OFFEROR	Cave- n authorized to sign)	15C. DATE SIGNED	BY (Signature of Contracting Officer)	16C DATE SIGNED
90	RCONTR	NRC-C	14 - 99 - 040	STANDARD FORM 30 (REV. 10-83) DFC:2

NRC-04-99-040 Modification No. 2 Page 2 of 2

This modification is issued to (1) modify Section C - Description/Specifications/Statement of Work - in accordance with the attached page describing Test Series 2 and 3; (2) increase the ceiling by \$50,000 from \$558,636 to \$608,636 and (3) increase obligated amount by \$250,000 from \$325,000 to \$575,000. The contract is therefore modified as follows:

1) Under Subsection B.3, Consideration and Obligation--Cost Reimbursement (JUN 1988) Alternate I (JUN 1988), paragraphs (a) and (f) 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 \$608,636.

(f) The amount presently obligated by the Government with respect to this contract is \$575,000."

2) Under Section C - Description/Specifications/Statement of Work - Subsections C.4.3, Test Series 2, and C.4.4, Test Series 3, are deleted in their entirety and are replaced by the paragraph on the attached page describing the subject modifications to these test series.

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

Total FY99 Obligations:	\$ 325,000
Total FY00 Obligations:	\$ 250,000
Total NRC Obligations:	\$ 575,000

This modification obligates \$250,000 in FY00 funds.

All other terms and conditions remain the same.

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MODIFICATION TO NRC-0499-040 Oregon State University

Contractor shall complete Test Series 2, Fluid-Fluid Mixing and Thermal Stratification, and test Series 3, Experiment Scenarios to Provide PTS data, under the first option year. The installation of a pump and a flow control valve in the passive residual heat removal (PRHR) system which was included in the original work scope should be removed. However, additional instrumentation shall be provided for these test series to map the fluid temperature profile in the downcomer and to measure countercurrent flow velocities in the four cold legs. In addition, fluid velocities should be measured in the downcomer. About 50 additional regular thermocouples and two heated thermocouples in the downcomer and eight heated thermocouples in the cold legs would be acceptable. If a different type of instruments or a different number of heated thermocouples is needed, an alternate instrumentation plan should be proposed.

Estimated Level or Effort: 36 man-months

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