

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

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2. AMENDMENT/MODIFICATION NO. M010	3. EFFECTIVE DATE 07/11/2005	4. REQUISITION/PURCHASE REQ. NO. RES-03-049	RES-C05-386	5. PROJECT NO. (if applicable)
6. ISSUED BY U.S. Nuclear Regulatory Commission Division of Contracts Two White Flint North - MS T-7-I-2 Contract Management Branch 2 Washington, DC 20555	CODE 3100	7. ADMINISTERED BY (if other than Item 6) U.S. Nuclear Regulatory Commission Division of Contracts Two White Flint North - MS T-7-I-2 Washington, DC 20555		CODE 3100

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) OREGON STATE UNIVERSITY 306 KERR ADMINISTRATION CORVALLIS OR 973312147 CODE 053599908	FACILITY CODE	<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO.
		<input type="checkbox"/> 9B. DATED (SEE ITEM 11)
		<input type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-04-03-049
		<input checked="" type="checkbox"/> 10B. DATED (SEE ITEM 13) 03-19-2003

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 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)
5601511205 Y6852 252A 3X0200.560
FFS: RES-C05-386 OBLIGATE: \$78,000.00

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

<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) Bilateral Sec. B.3 and mutual agreement between the parties

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

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

SEE ATTACHED PAGES 2 AND 3 FOR DESCRIPTION OF MODIFICATION

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) Clem LaCava Asst Contract Administrator	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Stephen M. Pool Contracting Officer
15B. CONTRACTOR/OFFEROR <i>[Signature]</i> (Signature of person authorized to sign)	15C. DATE SIGNED 7/15/05
16B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer)	16C. DATE SIGNED 7/11/05

STANDARD FORM 30 (REV. 10-83)

TEMPLATE - ADM007

SISP REVIEW COMPLETE

ADM007

The purpose of this modification is to: (1) exercise Optional Task 4, revising the scope of the task and reducing the number of tests; (2) increase the contract by \$277,325.00 for Task 4, thereby increasing the total amount of the contract by \$277,325.00, from \$1,233,832.00 to \$1,511,157.00 and increasing the obligated amount by \$78,000.00 from \$844,954.00 to \$922,954.00. The Contractor's 6/8/05 proposal is hereby incorporated by reference. Accordingly, the contract is modified as follows:

1. **Item 15G of Standard Form 26** is deleted entirely and replaced with the following:

"TOTAL AMOUNT OF CONTRACT: \$1,511,157.00."

2. **Section B.3, CONSIDERATION AND OBLIGATION- COST REIMBURSEMENT (JUNE 1988) ALTERNATE I (JUNE 1988)**, is deleted entirely and replaced with the following:

"(a) Incremental funds in the amount of \$78,000.00 are being obligated at this time. The total amount presently obligated by the Government with respect to this contract is \$922,954.00.

(b) The total estimated cost to the Government for full performance of the base period is \$644,954.00.

(c) The total estimated cost to the Government for full performance of Optional Task 2 is \$389,710.00 for 10 tests, with an estimated level of effort of 48 man-months. Modification No. 8 exercised Optional Task 2 for the performance of 2 tests with an estimated level of effort of 10 man-months. If the Government has a need for one, or all, of the 8 remaining tests, a unilateral modification to the contract will be issued.

(d) The total estimated cost to the Government for full performance of Optional Task 3 is \$430,000.00 with a period of performance of 12 months.

(e) The total estimated cost to the Government for full performance of Optional Task 4 is \$277,325.00 with a period of performance through June 18, 2006, the current contract expiration date. If the next option under the contract is exercised the period of performance of this task may require an extension. Modification No. 10 exercises this optional task.

(f) The total estimated cost to the Government for full performance of Optional Task 5 is \$199,168.00 for 5 tests, with a period of performance of 6 months. Modification No. 8 exercised Optional Task 5 for the performance of 1 test with an estimated level of effort of 5 man-months. If the Government has a need for one, or all, of the 4 remaining tests, a unilateral modification to the contract will be issued.

(g) The total estimated cost to the Government for full performance of Optional Task 6 is \$499,985.00 with a period of performance of 12 months."

As a result of this modification, the contract ceiling amount is increased to \$1,511,157.00. All other terms and conditions of this contract remain unchanged.

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

Total FY03 obligation amount:	\$344,971.00
Total FY04 obligation amount:	\$299,983.00
Total FY05 obligation amount:	\$278,000.00
 Total NRC obligations:	 \$844,954.00

This modification obligates FY05 funds in the amount of \$78,000.00

MODIFICATION NO. 10 TO NRC-04-03-049
STATEMENT OF WORK

Modified Scope of Work:

The NRC has an urgent need for acquiring data on reflux condensation of steam in steam generators. The contractor shall complete the modified optional Task 4, designated as Task 4A below, in lieu of three tests specified in the current contract, namely, one test on countercurrent flow limit (CCFL) in the pressurizer surge line and two tests on entrainment and de-entrainment of liquid in the upper plenum.

Task 4A. Steam Generator Heat Transfer/Condensation Tests

The contractor shall prepare a test matrix for 3 steam generator reflux condensation tests based on NRC input and conduct the three tests to investigate reflux condensation in steam generators. Prior to conducting a test, the contractor shall provide detailed test conditions and test procedures for review by the NRC. In addition, the test data shall be qualified, before submittal to the NRC, to identify the unreliable data channels.

Estimated Level of Effort: 20 man-months

Deliverable and Reporting Requirements:

1. The contractor shall submit, within two months after contract modification, a test matrix and a test procedure for 3 steam generator reflux condensation tests which are formulated based on NRC input.
2. The contractor shall provide a test data report within 3 months after each test. When three tests are completed, the contractor shall provide a report discussing the results of all three tests within 6 months after completion of testing.
3. The contractor shall submit qualified test data in a format specified by the NRC data bank within 3 months after each test.
4. The contractor shall update the facility description report to describe the facility configuration used for the steam generator condensation tests. The measurement uncertainty and data qualification shall also be discussed in the facility description report. An updated facility description report shall be submitted to the NRC within nine months after contract modification.
5. The contractor shall submit a final test data analysis report within nine months after contract modification.

Travel Requirements:

The contractor shall make one trip to the NRC as directed by the NRC.