

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

PAGE 1 OF 3 PAGES

2 AMENDMENT/MODIFICATION NO

3 EFFECTIVE DATE

4 REQUISITION/PURCHASE REQ NO RFP No.

5 PROJECT NO (if applicable)

21

APR 11 2000

RES-96-060 -2/9/00

RESC00-374

6 ISSUED BY

CODE

7 ADMINISTERED BY (If other than item 6)

CODE

U.S. Nuclear Regulatory Commission
Division of Contracts and Property Mgt.
Attn: T-7-1-2
Contract Management Branch 2
Washington DC 20555

8 NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

9A AMENDMENT OF SOLICITATION NO.

Information Systems Laboratories, Inc.
Nancy L. Aguinaldo
Contracts Manager
7047 Carroll Rd.
San Diego CA 92121

9B DATED (SEE ITEM 11)

10A MODIFICATION OF CONTRACT/ORDER NO
Con# NRC-04-96-060

9 CODE

FACILITY CODE

X

10B DATED (SEE ITEM 13)

09-23-1996

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: 06015110125 APPN: 31X0200.060
BOC: 252A JCN: W6667 Obligate: \$252,712.00

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

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(a)

C THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF

D OTHER (Specify type of modification and authority) FAR 52.243-2 and mutual agreement of the parties.

X

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

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

See pages 2-3 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)

Nancy L. Aguinaldo
Controller/Contracts Mgr

15B CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

15C DATE SIGNED

4/11/00

16A NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

Sharon D. Stewart
Contracting Officer

16B UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

16C DATE SIGNED

Template = ADM-001

ADM02

The purpose of this modification is to increase the ceiling of the contract by \$252,712.00 from \$3,340,116.91 to \$3,592,828.91 to accommodate a within-scope change for performance of the effort described in the attached statement of work, for Task 7. This effort shall be performed in accordance with the statement of work for the effort, and the Contractor's technical proposal dated March 17, 2000, hereby incorporated. This modification also provides funding in the amount of \$252,712.00 for performance of the Task 7 effort. Additionally, this modification incorporates indirect rates with ceilings applicable to this contract effective March 16, 2000. Accordingly, the contract is modified as follows:

Under Section B.3, "Consideration and Obligation -- Cost Plus Fixed Fee," paragraphs a, e, and f are deleted in their entirety and replaced with the following in lieu thereof:

- a The total estimated cost to the Government for full performance of this contract is \$3,592,828.91 of which the sum of \$3,353,178.90 represents the estimated reimbursable costs and of which \$239,650.01 represents the fixed fee.
- e The amount presently obligated by the Government with respect to this contract is \$3,592,828.91.
- f It is estimated that the amount currently allotted will cover performance through November 30, 2000.

Under Section G.3, "NRCAR 2052.216-71 Indirect Cost Rates (JAN 1993)" is deleted in its entirety and replaced with the following clause which establishes ceiling rates for the remaining term of this contract.

"NRCAR 2052.216-71 Indirect Cost Rates - Alternate 2 (Oct 1999)

- (a) For this contract, the ceiling amount reimbursable for indirect costs is as follows.

<u>Indirect Cost Pool & Base</u>	<u>Rate</u>	<u>Effective Date</u>
Overhead (applied to labor)	94%	3/1/2000 - 11/30/2000
G&A (applied to total cost)	24%	3/1/2000 - 11/30/2000

- (b) In the event that indirect rates developed by the cognizant audit activity on the basis of actual allowable costs result in a lower amount for indirect costs, the lower amount will be paid. The Government may not be obligated to pay any additional amounts for indirect costs above the ceiling rates set forth above for the applicable period.

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

JCN#	W6667	F6950	F6946	F6011	F6059	Y6008	Total
FY96	100,000.00						100,000.00
FY97	577,503.00	90,000.00	44,985.00				712,488.00
FY98	800,000.00			25,000.00	25,000.00	120,000.00	970,000.00
FY98 Deob						(23,212.00)	(23,212.00)
FY99	960,000.00	60,000.00	45,000.00		9,000.00		1,074,000.00
FY00	\$732,712.00	\$26,840.91					\$759,552.91
Total	\$3,170,215.00	\$176,840.91	\$89,985.00	\$25,000.00	\$34,000.00	\$96,788.00	\$3,592,828.91

This modification obligates FY2000 funds in the amount of \$252,712.00

All other terms and conditions of this contract remain unchanged.

Attachment SOW for Task 7

Modification No. 21 to Contract No. NRC-04-96-060
"Maintenance of TRAC-BWR Thermal-Hydraulic Simulation Computer Code for
Reactor Transients"

This modification is to add Task 7 to Contract No. NRC-04-96-060, "Maintenance of TRAC-BWR Thermal-Hydraulic Simulation Computer Code for Reactor Transients," as described below.

TASK 7 TRAC-B Code and Other Analyses to Support Proposed Changes to 10-CFR
Part 50 Appendix K.

This task will provide TRAC-B code and other regulatory analyses to support two proposed changes to Appendix K in the area of the decay heat and metal water reaction requirements. The existing TRAC-B and other computer code calculations should be reviewed, and additional calculations should be performed, as necessary, to support the regulatory analyses being performed by the NRC staff. The regulatory analyses should be patterned after the regulatory analyses provided for the revision to Appendix K involving modification to the power level assumption used for ECCS evaluations. The regulatory analyses should include an assessment of the change in risk involved in using the revised models, an estimate of the reduction in margin associated with the changes, and an estimate of the retained conservatism if the changes are made.

In order to provide the basis for this Appendix K revision and the regulatory analyses, supporting LOCA analyses need to be provided. A focused review will be performed to determine the appropriateness of existing analyses to support the proposed rule change. Where additional analyses are required, TRAC-B and/or other NRC codes will be selected to perform the analyses. The analyses should include the following for each domestic vendor design:

1. Analysis with the required features of Appendix K
2. Same as 1 with more realistic decay heat
3. Same as 1 with more realistic metal water reaction
4. Same as 1 with more realistic decay heat and metal water reaction
5. Same as 4 but at higher power

Analyses 2, 3, and 4 are needed to determine the reduction in margin with respect to Analysis 1. Analysis 5 is needed to estimate the potential power uprate benefit for the regulatory analyses.

Best estimate analyses are required to estimate the retained conservatism. NRC will provide best estimate analyses for CE and Westinghouse designs. If the survey of existing analyses does not provide appropriate best estimate calculations for other vendor designs, the contractor should perform such analyses as appropriate.

Estimated level of effort for Task 7 = 13 staff-months

TRAVEL

None

SCHEDULE FOR PERFORMANCE

Task 7 should be completed by June 30, 2000.

DELIVERABLES

Regulatory analyses as outlined in the task description. Letter reports should be provided for the analyses. Computer code calculation results along with input deck descriptions should also be provided. Any code modifications or supplemental analyses should be described and justified.