

2. AMENDMENT/MODIFICATION NO. M002	3. EFFECTIVE DATE 03/18/2005	4. REQUISITION/PURCHASE REQ. NO. NRR0303804	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 Div 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) INFORMATION SYSTEMS LABORATORIES 11140 ROCKVILLE PIKE STE 500 ROCKVILLE MD 208522310 CODE DUNS150135445 FACILITY CODE	<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-03-03-038 T004
	<input checked="" type="checkbox"/> 10B. DATED (SEE ITEM 13) 04-02-2004

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) 520-15-115-105 J-3149 252A 31X0200.520
 FFS#: NRR0303804 OBLIGATE: \$100,000.00

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 data, 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 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 PAGE 2 OF 2 FOR DESCRIPTION OF MODIFICATION NO. 2 TO TASK ORDER NO. 004 UNDER NRC-03-03-038

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) <i>James F. Meyer VP</i>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharon D. Stewart Contracting Officer
15B. CONTRACTOR/OFFICER <i>[Signature]</i> (Signature of person authorized to sign)	15C. DATE SIGNED 5/23/05
16B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer)	16C. DATE SIGNED 5/23/05

STANDARD FORM 30 (REV. 10-83)

TEMPLATE - ADM001

SISP REVIEW COMPLETE

ADM002

This confirms the verbal authorization that was provided to James Meyer, Information Systems Laboratories, Inc., extending the period of performance through 9/30/05. This also confirms the verbal authorization that was given on 4/14/05 to continue work under the subject task order in accordance with the enclosed revised Statement of Work, with a temporary ceiling of \$50,000.00.

The purpose of this modification is to: (1) increase the level of effort by 1,000 hours, thereby, increasing the task order ceiling and obligated amounts, (2) increase the number of trips under travel by 2 trips, and (3) extend the period of performance. Therefore, the task order ceiling is increased by \$123,095.00 (\$114,065.00 represents the estimated reimbursable costs and \$9,030.00 represents the fixed fee), from \$122,985.00 to \$246,080.00. The obligated amount is increased by \$100,000.00 from \$122,985.00 to \$222,985.00. Accordingly, the following changes are hereby made:

"Task Order No. 004 shall be in effect from March 4, 2004, through September 30, 2005, with a cost ceiling of \$246,080.00. The amount of \$228,572.00 represents the estimated reimbursable costs, and the amount of \$17,508.00 represents the fixed fee. Incremental funding in the amount of \$100,000.00 (including the \$50,000.00 temporary ceiling), is obligated by this modification. Total funds obligated under this task order are \$222,985.00."

All other terms and conditions of this task order and the contract remain the same.

Statement of Work
Task Order No. 004 Modification No. 02 Under JCN J-3149

MODIFICATION NO. 02 CHANGES ARE SHOWN IN STRIKEOUT/UNDERLINE.

Title: ESBWR Transient and ATWS Confirmatory Analysis

Project Manager; L. Ruth, 301-415-1211
Technical Monitor: ~~S. Lu, 301-415-2869~~
V. Klein, 301-415-2888

TAC Number: MB6801
NRC Priority Number: 1

BACKGROUND

ISL and NRC Staff have developed the ESBWR LOCA confirmatory analysis capability based on coupled computer codes TRACE and CONTAIN. Under the on-going task order contract with NRC, ISL is expected to complete GDCCS Line LOCA and MSLB LOCA analysis to support the second phase of NRC ESBWR pre-application LOCA review activities. ISL will bring final closure of the ESBWR LOCA analysis and perform transient and ATWS confirmatory analysis to support NRC's review of ESBWR transient and ATWS licensing topical reports.

OBJECTIVE

Expert support is needed to complete the ESBWR TRACE model development and LOCA analyses, perform transient analyses and evaluate the system response during ATWS scenarios.

TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

One specialist is to be provided who has hands-on experience and knowledge of the coupling of the TRACE/CONTAIN code, and the current knowledge about the coupling between TRACE and PARCS code.

It is the responsibility of the contractor to assign technical staff, employees, subcontractors, or specialists who have the required educational background, experience, or combination thereof to meet both the technical and regulatory objectives of the work specified in this SOW. The NRC will rely on representations made by the contractor concerning the qualifications of the personnel assigned to this work including assurance that all information contained in the technical cost proposals, including resumes, is accurate and truthful. In addition, the contractor and personnel assigned to this work must be approved for handling and working with proprietary information of GE ESBWR.

WORK REQUIREMENTS AND SCHEDULE

The contractor shall complete ESBWR LOCA analyses, perform transient analyses and evaluate system response during ATWS. The detailed analytical work is summarized below:

A contractor spending plan is required for task orders that are expected to exceed \$100,000 and the period of performance is expected to exceed six months.

MEETINGS AND TRAVEL

Meetings are to take place with the NRC staff, and possibly with ACRS and applicant at the NRC headquarters facilities. ~~Three~~ Five (5) meetings are anticipated. ~~4~~ Six (6) trips for a total ~~6~~ of nine (9) working days are expected to cover the meetings. One trip is expected to visit FLUENT to perform CDF calculation.

NRC-FURNISHED MATERIALS

GE proprietary information will be provided when necessary.

OTHER APPLICABLE INFORMATION

The material to be used under this task order is proprietary documentation and will be provided by the NRC in the form of CD-ROMs which must be handled and protected consistent with the terms of the non-disclosure agreement between the NRC and ISL.

License Fee Recovery

The work specified in this SOW is license fee recoverable.