

2. AMENDMENT/MODIFICATION NO. M003	3. EFFECTIVE DATE 03/29/2005	4. REQUISITION/PURCHASE REQ. NO. NRR0303811	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		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		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	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-03-03-038 T011
	X	10B. DATED (SEE ITEM 13) 11-29-2004

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) 520-15-111-104 J-3213 252A 31X0200.520
FFS#: NRR0303811 OBLIGATE: \$125,000.00

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).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	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. 3 TO TASK ORDER NO. 011 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 E. Meyer, V.P.</i>	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Sharon D. Stewart Contracting Officer
15B. CONTRACTOR/OFFEROR <i>[Signature]</i> (Signature of person authorized to sign)	15C. DATE SIGNED 5/16/05
	16B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer)
	16C. DATE SIGNED 5/16/05

TEMPLATE - ADM001 SISP REVIEW COMPLETE ADM002

This confirms the verbal authorization that was provided to James Meyer, Information Systems Laboratories, Inc., effective 3/29/05, 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, which was later increased by \$25,000.00 on 4/7/05, for a total temporary ceiling of \$75,000.00.

The purpose of this modification is to: (1) increase the level of effort by 8 staff months, thereby, increasing the task order ceiling and obligated amounts, and (2) increase the number of trips under travel by 2 trips. Therefore, the task order ceiling is increased by \$160,153.00 (\$148,993.00 represents the estimated reimbursable costs and \$11,160.00 represents the fixed fee), from \$127,208.00 to \$287,361.00. The obligated amount is increased by \$125,000.00 from \$127,208.00 to \$252,208.00. Accordingly, the following changes are hereby made:

"Task Order No. 011 shall be in effect from November 29, 2004, through October 31, 2005, with a cost ceiling of \$287,361.00. The amount of \$267,530.00 represents the estimated reimbursable costs, and the amount of \$19,831.00 represents the fixed fee. Incremental funding in the amount of \$125,000.00 (including the \$75,000.00 temporary ceiling), is obligated by this modification. Total funds obligated under this task order are \$252,208.00."

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

NRC-03-03-038
TASK ORDER NO. 011, MODIFICATION NO. 3

STATEMENT OF WORK

The purpose of this modification is to increase the level of effort from 6 staff months to 14 staff months and increase the number of trips from four to six. Accordingly, the task order is modified, as shown in red.

PROJECT TITLE: Technical Support of Generic Safety Issue (GSI) 191 Review Activities

JOB CODE: J-3213

B&R NUMBER: 520-15-111-104

NRC OFFICE: Office of Nuclear Reactor Regulation

TASK ASSIGNMENT: Technical Support of GSI-191 Review Activities

NRC PROJECT MANAGER: Lawrence C. Ruth (301) 415-1211

NRC TECHNICAL MONITOR: Shanlai Lu (301) 415-2869

NRC TAC: MA6454

PRIORITY RANKING: 2

PERIOD OF PERFORMANCE: November 29, 2004, through October 31, 2005

BACKGROUND:

Based on the findings of the Generic Safety Issue 191 study conducted by the NRC Office of Nuclear Regulatory Research on ECCS suction/containment sump clogging in PWRs, the NRC staff will issue the Safety Evaluation Report (SER) regarding the PWR sump design guide line report developed by the Nuclear Energy Institute (NEI) in conjunction with the PWR Owner's groups. With this SER, licensees will be required to proceed to resolve the GSI-191 issue. Efforts will be made by the staff to monitor licensees' responses to the NRC generic letter, audit licensees' progress and review the new sump design and provide guidance and regulatory positions.

OBJECTIVE

The purpose of this task is to obtain technical assistance in resolving technical issues related to PWR sump design, interacting with the industry regarding the new sump design, improving the head loss/BLOCKAGE computer codes for confirmatory purposes, performing Computational Fluid Dynamics (CFD) calculations to examine the licensees' debris transport

calculations as part of NRC audit activities.

TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

Personnel shall be experienced in the area of ECCS systems and in particular GSI-191 evaluation methodology and PWR/BWR ECCS sump screen designs and the computer code development.

It is the responsibility of the contractor to assign technical staff, employees, subcontractors, specialists who have the required educational background, industry 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 task including assurance that all information is accurate and trustful. In addition, the contractor and the personnel assigned to this work must be approved for handling and working with proprietary information, if it is necessitated by the content of the document or documents to be reviewed.

WORK REQUIREMENTS

The work will be divided into the following three areas:

1. BLOCKAGE/Head Loss Code Development.

The Contractor will receive the BLOCKAGE/Head Loss code from LANL and implement the temperature/void fraction limitation requirements into the code. Continue the conversion of the BWR BLOCKAGE code for PWR applications. Add the de-aeration algorithm and relevant GUI panels. Provide training of the staff to use the package and release the package to the industry per NRC's request.

Deliverables: BLOCKAGE computer code source code, SQA documents and technical reports.
Deliverable Date on, or about: March 31, 2005.

2. CFD Audit Calculation.

After licensees' containment CFD models are available, the Contractor shall perform the confirmatory analysis using the licensee's model and evaluate the conservatism of the model.

Deliverables: RAIs, evaluation reports on the licensee's design calculations and calculation reports.

Deliverable Date: September 30, 2005

3. Technical Support On Audit

The Contractor shall provide technical support regarding the debris generation, debris transport and the head loss calculation during the course of audits. When new sump designs are available, the Contractor shall support staff in the area of on-site audit.

Deliverables: Technical reports and audit reports.

Deliverable date: October 30, 2005.

4. Technical Support On SE Improvement

The Contractor shall provide analysis to support staff on revising the SE positions. Specifically, the Contractor shall perform containment long term cooling calculation to estimate the sump water temperature and NPSH margin increase, identify two-phase jet destruction pressure contour and ZOI volume calculation.

Deliverables: Technical reports and analysis reports.
Deliverable date: October 30, 2005.

All reports are required to be prepared per ISL QA standards and formats described in the base contract.

SPENDING PLAN

As part of the proposed work plan prior to each fiscal year, the Contractor shall submit for NRC concurrence and acceptance a proposed spending plan for that fiscal year, broken down on a monthly basis. This spending plan should consider not only expenses costed in the performance of task work as specified in the SOW, but also other competing commitments (other contract work, vacation, etc.) which the contractor anticipates in that fiscal year. In addition, the contractor shall propose a modified spending plan for NRC concurrence and acceptance any time there is a significant deviation (10% of the FY total) from the spending plan in effect.

MEETING AND TRAVEL

FourSix trips of two days duration is planned to support visits to NRC regional offices, the vendors facilities to audit testing of new sump screen design and obtain any additional information needed to complete the review (if necessary). Additional trips may be required to meet with NRC committees and/or reactor vendors and industry groups. These will be specified in a modification to the SOW, if necessary. Telephone conferences with reactor vendors and/or industry groups may also be necessary.

NRC FURNISHED MATERIALS

The subject CFD input model and vendor's proprietary information will be provided by the NRC Technical Monitor.

OTHER APPLICABLE INFORMATION

Some of the material to be reviewed under this task order may be proprietary documentation and must be handled and protected consistent with the terms of the non-disclosure agreement between the NRC and LANL.

LICENSE FEE RECOVERY

The work specified in this SOW is not license fee recoverable.