

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		BPA NO.	1. CONTRACT ID CODE	PAGE 1	OF 2
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE See Block 15c.	4. REQUISITION/PURCHASE REQ. NO. NRC-42-07-036 T77N4 0703677174	5. PROJECT NO. (if applicable)	
8. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Jeffrey R. Mitchell, 301-492-3639 Mail Stop: TWB-01-B10M Washington, DC 20555		CODE 3100	7. ADMINISTERED BY (if other than Item 8) U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop: TWB-01-B10M Washington, DC 20555		CODE 3100
5. NAME AND ADDRESS OF CONTRACTOR (Name, street, county, State and ZIP Code)  INFORMATION SYSTEMS LABORATORIES, INC ISL ATTN: DR. JAMES F. MEYER  11140 ROCKVILLE PIKE, SUITE 500  ROCKVILLE MD 20852			(X)	9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-42-07-036 0077	
			X	10B. DATED (SEE ITEM 13) 09-24-2009	
CODE 107928806		FACILITY CODE			

**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) 025-15-171-191 Q4174 252A 31x0200.025  
Obligate \$396,378.14

**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 data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>Bilateral Mutual Agreement of the Parties</b>
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return <sup>2</sup> copies to the issuing office.

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

.....REFER TO ATTACHED PAGE TWO FOR A DESCRIPTION OF MODIFICATION NO. FOUR.....

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) <b>James F. Meyer, Senior V.P.</b>		15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Jeffrey R. Mitchell Contracting Officer</b>	
15B. CONTRACTOR'S OFFICER <i>[Signature]</i> (Signature of person authorized to sign)		15B. UNITED STATES OF AMERICA BY <i>[Signature]</i> (Signature of Contracting Officer)	
15C. DATE SIGNED <b>7/28/10</b>		15C. DATE SIGNED <b>7/28/2010</b>	

NSN 7540-01-152-6070  
PREVIOUS EDITION NOT USABLE

STANDARD FORM 60 (REV. 10-83)  
Prescribed by GSA - FAR (48 CFR) 53.243

**SUNSI REVIEW COMPLETE**

JUL 30 2010

TEMPLATE - ADM001

ADM002

The purpose of this modification is to (1) to incorporate the revised Task Order Statement of Work, (2) increase the contract ceiling by \$446,214.00 from \$1,013,583.00 to \$1,459,797.00 (3) provide incremental funding in the amount of \$396,378.14 thereby increasing the total obligations from \$1,013,583.00 to \$1,409,961.14 and (4) extend the period of performance from December 31, 2010 to September 30, 2011. Accordingly, the subject task order is modified as follows:

Refer to the Task Order No. 77 "Statement of Work" is here by deleted in its entirety and replaced with the following Statement of Work attached to this Modification No. 4 entitled "Statement of Work Rev 2".

Task Order No. 77 shall be in effect from September 24, 2009 through September 30, 2011, with a cost ceiling of \$1,459,797.00. The amount of \$1,376,059.00 represents the estimated reimbursable costs, and the amount of \$83,738.00 represents the fixed fee.

The amount obligated by the Government with respect to this task order is \$1,409,961.14, of which \$1,329,081.86 represents the estimated reimbursable costs, and the amount of \$80,879.28 represents the fixed fee.

**\*\*\*\*ALL OTHER TERMS AND CONDITIONS OF THE SUBJECT TASK ORDER REMAIN UNCHANGED\*\*\*\***

**MODIFICATION**  
**TASK ORDER STATEMENT OF WORK**  
**REVISION NO. 2**

JCN Q-4174	Contractor Information Systems Laboratories, Inc.	Task Order No. NRC 42-07-036 (TO 77) Mod 4
Applicant N/A	Design/Site N/A	Docket No. N/A
Title/Description Implementation of New Plant Construction Inspection and Operational Programs		
TAC No. N/A	B&R Number 025-15-171-191	SRP or ESRP Section(s) N/A
NRC Task Order Project Officer (PO) <i>Rachel Glaros</i> 301-415-3672 <i>Rachel.Glaros@nrc.gov</i>		
NRC Technical Monitor (TM) Omid Tabatabai 301-415-6616 <i>omid.tabatabai@nrc.gov</i>		

**1.0 BACKGROUND**

Combined Operating License (COL) Applications are submitted pursuant to Part 52 of Title 10 of the *Code of Federal Regulations* (10 CFR 52), "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants." The U.S. Nuclear Regulatory Commission (NRC) reviews COL Applications based on information furnished by electric utility companies pursuant to 10 CFR 52.79, "Contents of Applications Technical Information."

A Standard Review Plan (NUREG-0800) is prepared for the guidance of staff reviewers in the Office of New Reactors in performing safety reviews of applications to construct or operate nuclear power plants and the review of applications to approve standard designs and sites for nuclear power plants. The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews.

An Environmental Safety Review Plan (NUREG-1555) is prepared for the guidance of staff reviewers in performing environmental reviews of applications related to nuclear power plants. The ESRPs are companions to regulatory guides that address siting and environmental issues. As with NUREG-0800 the purpose of the ESRP is to assure the quality and uniformity of environmental reviews.

The staff publishes the results of these reviews in a Safety Evaluation Report (SER).

**2.0 OBJECTIVE**

The objective of the modification to this task order is to obtain technical expertise from the contractor to assist the NRC staff in implementation of the Office of New Reactors (NRO) Construction Inspection Program (CIP), specifically, (1) with assisting NRC region II center for construction inspection develop ITAAC inspection strategy documents for various

**new reactor designs; (2) evaluation of 10 CFR Part 21 reports; and (3) review of legacy LER and IRS reports.**

Tasks under this Scope of Work include the following programs in the CIP. (Note: This task establishes the implementation phase of the programmatic requirements developed as part of Task Order 2, Subtask 4 and development of related complementary programs.)

#### **Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Program Development**

- Assist with the development of the staff ITAAC closure process including submittal process, requirements, steps, criteria, and staff verification of ITAAC closure per 10 CFR 52.99, and ITAAC inspections.
- ***Assist NRC Region II Center for Construction Inspection with the development of ITAAC Inspection strategy documents for various new reactor designs.***

#### **New Reactor Construction Experience Program**

Assist with systematic evaluation of domestic and international construction experience (ConE) and operating experience (OpE) applicable to new reactor construction, including:

- Short-term analyses of diverse ConE/OpE sources, including available licensee event reports (LERs), international incident reporting system (IRS) reports, foreign regulators' inspection reports, etc. for trends and insights per Office Instruction NRO-REG-112, ***and vendor deficiency/defect (10 CFR Part 21) reports.***
- Short-term detailed, independent evaluations of complex ConE-OpE issues to determine safety significance and generic applicability per NRO-REG-112,
- Short-term review and evaluation of inspection reports, including vendor inspection and quality assurance audit report, for identification of applicable ConE-OpE and lessons learned,
- Populating the NRC's ConE knowledge management database with ConE-OpE events in accordance with all NRC's Office of Information Services (OIS) rules and regulations regarding Information Management Systems, Software requirements, Security
- Development and transition of the current ConE database in to an NRC SharePoint environment in accordance with the NRC Office of New Reactors information technology requirements and specifications
- Development of a "public" version of the ConE database in an NRC SharePoint environment in accordance with all NRC policies and requirements for information security
- Supporting the staff with its efforts to revise NRO-REG-112.
- ***Review and evaluation legacy LER and IRS reports per NRO-REG-112.***

### **Development of New Plant Construction Enforcement and Assessment Program**

Assist the staff with development of all aspects of the enforcement and assessment methodologies for new plant construction, including the development of implementing procedures, training materials, and guidance documents.

### **Development of New Plant Construction Physical Security and Emergency Preparedness Inspection Procedures**

Assist in developing new plant construction Physical Security and Emergency Preparedness Programmatic Inspection Procedures (IP). The new IPs would be incorporated into NRC Inspection Manual Chapter IMC-2504, "Construction Inspection Program - Non-ITAAC Inspections."

### **ITAAC Family Inspection Strategy Documents**

Assist the staff by developing ITAAC Family Inspection Strategy documents to support the construction inspection program for new reactors. The strategy documents are inspection plans for implementing established NRC Inspection Procedures which specify inspection samples and resources to be applied. Format of strategies should follow established NRC Region II office guidance.

### **Development of an Integrated Information Technology System for CIP**

Assist the staff to develop an integrated information technology system to facilitate storage, workflow, retrieval and reporting tasks for all processes of construction inspection program activities including but not limited to; scheduling, ITAAC inspection/verification, training, IP revision /feedback, vendor inspections, assessment of licensee performance, enforcement, etc.

## **3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES**

<b>Tasks/Standards</b>	<b>Scheduled Completion</b>	<b>Deliverables</b>
<p>1. <b>REQUIREMENT:</b> Become familiar with existing programs for Construction Inspection Program</p> <p><b>STANDARD:</b> Written confirmation that familiarization is complete</p> <p>The level of effort for Task 1 is based on the volume of materials to be reviewed; this task is for familiarity and not for evaluation.</p>	<p>* 1 week after authorization of work.</p>	<p>Documentation that assigned personnel have reviewed references</p>

Tasks/Standards	Scheduled Completion	Deliverables
<p>2. <b>REQUIREMENT:</b> Participate in an orientation/kick-off meeting with the NRC DCIP staff to discuss the scope of the work, expectations and contract management.</p> <p><b>STANDARD:</b> Attendance by individuals designated by NRC.</p>	<p>* 1 week after authorization of work</p>	<p>Project Plan and Schedule</p>
<p>3. <b>REQUIREMENT:</b> Determine if the methods and approach proposed by the staff meet the appropriate programmatic goals. Identify issues and those aspects of the program that need additional development. Propose the output and final submittals.</p> <p><b>STANDARD:</b> Completed report, guide, or project guide that follows the NRC provided template in accordance with NRC requirements. One round of comment incorporation is acceptable.</p>	<p>* 2 weeks after authorization of work</p>	<p>Program Development, TBD</p>
<p>4. <b>REQUIREMENT:</b></p> <p>a) Incorporate NRC staff review comments and provide final submittal.</p> <p>b) Provide assistance to the staff:</p> <p>(i) assist NRC Region II Center for construction inspection with development of ITAAC inspection strategy documents for various new reactor designs; (ii) evaluate 10 CFR Part 21 reports; and (iii) review and evaluate legacy LER and IRS reports.</p> <p><b>STANDARD:</b> Complete submittal and evaluation as required.</p>		<p>Final Submittal</p>

Tasks/Standards	Scheduled Completion	Deliverables
<p>5. <b>REQUIREMENT:</b> As needed and requested by the staff, provide technical support to the staff during related ACRS meetings and hearing proceedings.</p> <p><b>STANDARD:</b> Ensure presentation materials are reviewed and approved by NRC staff.</p> <p>The level of effort in Task 5 is based on requiring one trip per task to NRC headquarters to support meetings such as ACRS review.</p>	TBD	Prepare Presentation Materials. Attend Meetings, if required

\* These Work Schedules are subject to change by the NRC Contracting Officer (CO) to support the needs of the NRC Programs.

The Technical Monitor may issue technical instruction from time to time throughout the duration of this task order. Technical instructions must be within the general statement of work delineated in the task order and shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. The contractor shall refer to Section G.1 of the base contract for further information and guidance on any technical directions issued under this task order.

Any modifications to the scope of work, or cost or period of performance of this task order must be issued by the CO and will be coordinated with the NRO Project Officer.

#### **4.0 TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED**

As specified in the base contract, the contractor shall provide individuals who have the required educational background and work experience to meet the objectives of the work specified in this task order. Specific qualifications for this effort include:

- 10 CFR Part 52 Experience
- Nuclear Power Plant Construction Experience
- Civil Engineering
- Construction Management
- Risk Assessment
- Mechanical Engineering
- Electrical Engineering
- NRC's Safety Culture Program
- Nuclear Power Plant Emergency Preparedness Specialist
- Nuclear Power Plant Physical Security Specialist
- Knowledge of New Reactor Certified Design ITAAC and NRC Inspection Methods
- Information Technology Specialist – As a minimum, experienced with SharePoint, Webpage design, MSOffice Applications, Web-enabled databases, and system integration.

The contractor shall provide a contractor project manager (PM) to oversee the effort and ensure the timely submittal of quality deliverables so that all information is accurate and complete as defined in the base contract.

The NRC will rely on representations made by the contractor concerning the qualifications of the personnel assigned to this task order, including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful. The resume for each professional proposed to work under this task order (contractor, subcontractor, or consultant) shall describe the individual's experience in applying his or her area of engineering specialization to work in the proposed area. The use of particular personnel on this contract is subject to the NRC technical monitor's (TM's) approval. This includes any proposed changes to key personnel during the life of the task order.

## **5.0 REPORTING REQUIREMENTS**

### **Task Order Progress Report**

The contractor shall provide a bi-weekly progress report summarizing accomplishments, expenditures, contractor staff hours expended, percent completed for each task under this task order, and any problems encountered by the contractor. The report shall be sent via e-mail to the NRC TM, Task Order Project Officer (PO) and CO.

Please refer to Section F of the basic contract award document for contract reporting requirements.

### **Technical reporting requirements**

Unless otherwise specified above, the contractor shall provide all deliverables as draft products. The NRC TM will review all draft deliverables (and coordinate any internal NRC staff review, if needed) and provide comments back to the contractor. The contractor shall revise the draft deliverable based on the comments provided by the TM, and then deliver the final version of the deliverable. When mutually agreed upon between the contractor and the TM, the contractor may submit preliminary or partial drafts to help gauge the contractor's understanding of the particular work requirement.

The contractor shall provide the following deliverables in hard copy and electronic formats. The electronic format shall be provided in MS Word or other word processing software approved by the TM. For each deliverable, the contractor shall provide one hard copy and electronic copy to both the PM and the TM. The schedule for deliverables shall be contained in the approved project plan for the task order effort.

In all correspondence, include identifying information: JCN Q 4174, Task Order 77.

## **6.0 MEETINGS AND TRAVEL**

- One 6-person, 1-day working meeting to kickoff project and contractor orientation for individual tasks assigned.\*
- Five 1-person, 1/2-day working meeting at NRC headquarters to review deliverables.\*
- Two 2-person, 2-day working meeting at NRC Region-II offices in Atlanta, GA.



- Two, 2-person, 1-day meetings for hearing or ACRS meeting, if needed.
- One 2-person, 1-day working meeting to kickoff project and contractor orientation for individual tasks assigned.

\*At the discretion of the NRC TM, meeting may be conducted via telephone or video conference.

#### **7.0 NRC FURNISHED MATERIAL**

The following NRC furnished materials will be provided to the contractor:  
Project Guides and Templates as needed. Staff methodology and approach documentation.

#### **8.0 PERIOD OF PERFORMANCE**

The period of performance is September 24, 2009 through **September 30, 2011**.

#### **9.0. OTHER APPLICABLE INFORMATION**

##### **a. License Fee Recovery**

All work under this task order is not fee recoverable and must be charged to the appropriate TAC number(s).

##### **b. Assumptions and Understandings:**

It is assumed that the contractor has access to the NRC furnished material available on the Internet.

It is understood that the scope of the review consists of conference calls with the NRC staff, and with the NRC staff and the applicant, to discuss open items in an attempt to obtain additional information or reach resolution.