

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

BPA NO.

1. CONTRACT ID CODE

PAGE 1

OF PAGE 2

2. AMENDMENT/MODIFICATION NO. 0001

3. EFFECTIVE DATE See Block 15c.

4. REQUISITION/PURCHASE REQ. NO. 42-07-036T038M001

5. PROJECT NO.(If applicable)

6. 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 6) U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop: TWB-01-B10M Washington, DC 20555

CODE 3100

8. NAME AND ADDRESS OF CONTRACTOR (No., 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 0038

10B. DATED (SEE ITEM 13)

X

05-21-2008

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) No Funds Obligated

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).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Bilateral Mutual Agreement of the Parties

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, X is required to sign this document and return 2 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. ONE.....

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)

Bruce B. Mrowca V.P.

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

Jeffrey R. Mitchell Contracting Officer

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

15C. DATE SIGNED

3/5/09

16B. UNITED STATES OF AMERICA

BY

(Signature of Contracting Officer)

16C. DATE SIGNED

MAR 05 2009

This confirms the verbal authorization that was provided to Information Systems Laboratories, Inc., on February 25, 2009, to extend the period of performance from February 20, 2009 through August 31, 2009.

The purpose of this modification is to (1) to incorporate the revised task order Statement of Work; (3) extend the period of performance from February 20, 2009 to August 31, 2009 at a no additional ceiling increase for the Government. Accordingly, the subject task order is modified as follows:

Refer to the Task Order No. 38 "Statement of Work" is here by deleted in its entirety and replaced with the following Statement of Work attached to this Modification No. 1 entitled "Statement of Work Rev 1".

The Period of Performance is hereby revised as follows:

"Task Order No. 38 shall be in effect from May 21, 2008 through August 31, 2009"

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

TASK ORDER STATEMENT OF WORK REV 1

JCN Q4160	Contractor ISL, Inc.	Task Order No. NRC-42-07-036 (38)
Applicant Westinghouse	Design/Site AP1000 Design Certification	Docket No. 05200006
Title/Description AP1000 DC Amendment - Evaluation of AP1000 DCA Technical Specification Changes		
TAC No. RX0487	B&R Number 825-15-171-103	SRP or ESRP Section(s)
NRC Task Order Project Officer (PO) Jayne Halvorsen 301-415-6001 Jayne.Halvorsen@nrc.gov		
NRC Technical Monitor (TM) Tanya Ford 301-415-1194 Tanya.Ford@nrc.gov		

1.0 BACKGROUND

In 2007 Westinghouse submitted to U.S. Nuclear Regulatory Commission (NRC) an application for AP1000 Design Certification amendment (DCA) 16. DCA 16 includes changes to AP1000 Design Certification Document (DCD) Section 16.1, Technical Specifications (TS). Although the primary responsibility of the TS changes lies in the Technical Specifications Branch (CTSB), many of the proposed TS changes are under the purview of the Reactor Systems, Nuclear Performance & Code Review Branch (SRSB). The SRSB is required to provide technical support and conduct detailed review to determine the acceptability of the proposed changes to these sections.

Westinghouse had also submitted technical reports (TR) APP-GW-GLR-064, "TR-74A, AP1000 Generic Technical Specifications Completion," and APP-GW-GLN-075, Revision 0 (TR-74C), "AP1000 Generic Technical Specifications for Design Changes." These TRs provide, in part, the bases for certain proposed TS changes. The NRC staff's review of the TS changes will follow the guidance of Standard Review Plan (SRP) (NUREG-0800), Section 16, "Technical Specifications," to assure the quality and uniformity of staff safety reviews. As part of the full scope of AP1000 TS review, the SRSB staff will conduct review of changes related to the section of AP1000 TSs that are under the SRSB purview. These areas generally cover TS section related to safety limits, reactivity control systems, power distribution limits, reactor coolant system, passive core cooling system. Other parts of TS that need the SRSB support include reactor trip system instrumentation, engineered safety feature actuation system instrumentation, and criticality evaluation associated with spent fuel pool and refueling operation.

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

2.0 OBJECTIVE

The objective of this task order is to obtain technical expertise from ISL, Inc. to assist the NRC SRSB staff in the review of the proposed changes to the AP1000 DCD TS sections that are under the SRSB's review responsibility.

3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks Requirements and Standards	Scheduled Completion	Deliverables
<p>1. REQUIREMENT: Become familiar with (1) SRP 16.0, "Technical Specifications," and (2) the AP1000 Design and AP1000 DCD, including Chapter 16.1 Technical Specifications (TS) and various chapters that have direct relations to TS such as Chapters 4, 5, 6.3, 7, and 15.</p> <p>STANDARD: Written confirmation that familiarization is complete</p>	<p>1 week after authorization of work.</p>	<p>Documentation that assigned personnel have reviewed references</p>
<p>2. REQUIREMENT: Participate in an orientation/kick-off meeting with the NRC staff to discuss the scope of work, expectations, and task order management. Also to be discussed are the technical areas of TS changes that are under SRSB's purview.</p> <p>STANDARD: Attendance by the contractor project manager and assigned technical reviewers</p>	<p>1.5 weeks after authorization of work.</p>	<p>N/A</p>
<p>3. REQUIREMENT: Review the proposed changes to the AP1000 TS for those areas within the purview of the SRSB. The proposed TS changes may be found in AP1000 DCA Revision 16 strikeout/redline version, Road map for the DCA revision 16, and TR 134. Some of the TS changes and justifications are described in AP1000 technical reports TR-74A and TR-74C. The contractor should discuss with the NRC SRSB technical monitor (TM) to identify the review scope. The review should use SRP 16.0 as guidance, and verify that the proposed changes in LCOs and the setpoints of the reactor trip functions and ESFAS [Engineered Safety Features Actuation Systems] are consistent with the initial conditions, and various setpoints of the protection systems and engineered safety features assumed in the Chapter 15 transient and accident analyses. The contractor should also coordinate with ICE1 [Instrumentation, Controls and Electrical Engineering Brach 1] staff to ensure that proper instrumentation uncertainty values and treatments are included in the determination of the TS allowable values and setpoints.</p> <p>STANDARD: Complete preliminary Technical Evaluation Report (TER) that follows the NRC provided template. No deviation from the guidance defined in Section III, RAI guidance of Attachment 1.</p>	<p>10 weeks after authorization of work</p>	<p>Technical Evaluation Report and RAIs, if applicable</p>

Tasks Requirements and Standards	Scheduled Completion	Deliverables
<p>a. Prepare a preliminary TER related to the TS changes, identify technical issues and those aspects of the application that need additional or clarifying information and generate draft requests for additional information (RAIs).</p>	<p>8 weeks after the authorization of work.</p>	<p>PSER and Draft RAIs</p>
<p>b. Discuss with NRC technical monitor on the draft RAIs. Participate in conference calls with the applicant to discuss the draft RAIs and additional supporting materials needed to support the official RAI and TER development. Based on these discussions, generate formal RAIs to be sent to the applicant for their response.</p>	<p>2 weeks after completion of Task 3a.</p>	<p>Final RAIs</p>
<p>4. REQUIREMENT: Evaluate the RAI responses to determine if they adequately resolve the outstanding issues. Discuss with the NRC TM and identify open items that were not resolved from the RAI responses. Prepare a Draft TER with open items.</p> <p>STANDARD: Complete draft TER that follows the NRC provided template without deviation.</p>	<p>5 weeks after receipt of all RAI responses.</p>	<p>Draft TER with open items, if any</p>
<p>5. REQUIREMENT: Participate with the NRC staff and the applicant in the discussion of open items. Evaluate applicant's responses to open items. Identify any unresolved issues with open items if any, as a TER based on staff's comments.</p> <p>STANDARD: Complete TER that follows the NRC provided template without deviation.</p>	<p>4 weeks after completion of task 4.</p>	<p>Final draft TER</p>
<p>6. REQUIREMENT: If required, develop ACRS presentation slides and material for staff to review. Support staff's ACRS presentations.</p> <p>STANDARD: Ensure presentation materials are reviewed and approved by NRC staff.</p>	<p>TBD pending the ACRS meeting schedule.</p>	<p>ACRS presentation material. Attend ACRS meeting if required</p>

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

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, 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 basic task ordering agreement, 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 expertise in:

- Light-Water Reactor Design
- Nuclear Fuel Design
- Nuclear Design
- Thermal-hydraulic Design
- Transients and Accidents Analyses, including loss-of-coolant accidents (LOCA) and non-LOCA.
- Instrumentation and control systems.

The contractor shall provide a 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 (principal investigators, technical staff, employees, consultants, specialists or subcontractors) 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, TAPM 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 No.: Q4160; Task Order No.: 38; the licensee: Westinghouse; and, the site: AP1000 Design Certification Amendment.

1. At the completion of Task 3a, submit a Technical Evaluation Report (TER) that contains, for each Sub-section of the SER (see Attachment 1 for the list of the SER sections and the outline, format and content of the report): a description of the information proposed by the applicant including the assumptions for the analysis, design, and references to consensus standards: review findings (including the basis for the findings), as a result of comparison with the review guidelines: and a list of "Requests for Additional Information (RAIs). See Attachment 1 in the base contract SOW for the guidelines for developing RAIs.
2. At the completion of Task 4, submit a TER (see Attachment 1) that contains a summary of the review results and the updated report completed under Task 3 incorporating the findings from the resolution of the RAIs. Include a separate list of the remaining open items and the basis for such determination.
3. At the completion of Task 5, submit a TER (see Attachment 1) that contains a safety evaluation report with open items resulting from the work performed in Task 4, and update of the Technical Evaluation Report developed under Task 4.

6.0 MEETINGS AND TRAVEL

One 1-person, 1-day working meeting to kickoff project and contractor orientation.*

One 1-person, 1-day working meetings at NRC headquarters to review deliverables*

One, 1-person, 1-day meetings, if needed, for hearing or ACRS meeting.

*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 together with SOW:

- a. CD-ROM containing AP1000 DCD, AP1000 DCA Section 16.1, Revision 16,
- b. Technical reports (TR):

APP-GW-GLR-064, "TR-74A, AP1000 Generic Technical Specifications Completion."
APP-GW-GLN-075, Revision 0 (TR-74C), "AP1000 Generic Technical Specifications for

Design Changes.”

APP-GW-GLR-134, “AP1000 DCD Impacts to Support COLA Standardization.”

- c. CD-ROM containing the NUREG-1793, “Final Safety Evaluation Report Related to Certification of the AP1000 Standard Design.”

8.0 PERIOD OF PERFORMANCE

The period of performance is from May 21, 2008 through August 31, 2009.

9.0. OTHER APPLICABLE INFORMATION

a. License Fee Recovery

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

b. Assumptions and Understandings:

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.

The level of effort for Task 3 is based on the assumption that the contractor is familiar with the review procedures of SRP Section 16, “Technical Specifications.”

The level of effort for Task 4 is based on the assumption that there will be 20 RAIs and it will take, on the average, 4 hours to review and address each response.

The level of effort for Task 5 is based on the need to resolve 10 open items and it will take, on the average, 4 hours to review and resolve each open item, and prepare an SER.

The level of effort in Task 6 is based on requiring one trip to NRC headquarters.

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.

Attachments: ***REFER RFP FOR ATTACHMENTS***

1. Outline, Format, and Content for the TER Input