



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

June 25, 2007

Information Systems Laboratories
Attn: Mr. James Meyer
11140 Rockville Pike, Suite 500
Rockville, Maryland 20852

SUBJECT: TASK ORDER NO. 36 ENTITLED, "REVIEW OF INDIAN POINT LICENSE RENEWAL APPLICATION - SCOPING AND SCREENING BALANCE OF PLANT" UNDER CONTRACT NO. NRC-03-03-038

Dear Mr. Meyer:

In accordance with the Section G.4, Task Order Procedures, of the subject contract, this letter definitizes Task Order No. 36. This effort shall be performed in accordance with the enclosed Statement of Work and the Contractor's technical proposal dated May 14, 2007, which is incorporated by reference and made a part of this task order. Verbal authorization to proceed with performance was given by the Contracting Officer on June 01, 2007, with a not to exceed spending limit of \$75,000.

Task Order number 36 shall be in effect from June 01, 2007, through January 31, 2009, with a cost ceiling of \$191,514. The amount of \$177,424 represents reimbursable costs, the amount of \$14,090 represent the fixed fee.

The obligated amount shall, at no time, exceed the task order ceiling. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this task order. Any work undertaken by the Contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk.

This task order obligates funds in the amount of \$191,514, of which \$177,424 represents reimbursable costs, \$14,090 represents the fixed fee. Accounting data for this task order is as follows:

B&R NO.:	720-15-112-130
JOB CODE:	J4072
BOC:	252A
APPN. NO.:	31X0200.720
FFS NUMBER:	NRR-03-038-(036)
OBLIGATED AMOUNT:	\$191,514

The following individual is considered to be essential to the successful performance of the work hereunder: [REDACTED] The Contractor agrees that such personnel shall not be removed from the effort under the task order without compliance with the Contract Clause H.4 Key Personnel.

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

JUL 12 2007

ADM002

Your contacts during the course of this task are:

Technical Matters: Rachel Glaros
Project Officer
(301) 415-3672

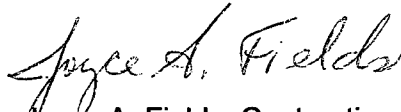
Contractual Matters: Jennifer DeFino
Contract Specialist
(301) 415-6714

The issuance of this task order does not amend any terms or conditions of the subject contract.

Please indicate your acceptance of this task order by having an official, who is authorized to bind your organization, execute three (3) copies of this document in the spaces provided and return two copies to the U.S. Nuclear Regulatory Commission, Attn: Ms. Jennifer DeFino, ADM/DC/CMB1, Mail Stop T-7-I-2, Washington, D.C. 20555. You should retain the third copy for your records.

If you have any questions regarding this matter, please contact Jennifer DeFino on (301) 415-6714, facsimile (301) 415-8157, or e-mail at JAD2@NRC.gov.

Sincerely,

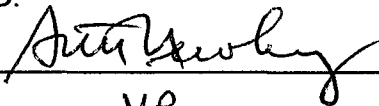


Joyce A. Fields, Contracting Officer
Division of Contracts
Office of Administration

Enclosure:
As stated

ACCEPTED:

NAME: _____



TITLE: _____

VP

DATE: _____

6/28/07

Contract No. NRC-03-03-038
Task Order 36
Statement of Work

Title: Review of the Indian Point Nuclear Generating Station Units 2 and 3 License Renewal Application (LRA) -Scoping and Screening of Balance of Plant (BOP - Auxiliary and Steam and Power Conversion less HVAC and Containment) Systems and Components that are subject to Aging Management Review (AMR)

Technical Monitor: TBD

BACKGROUND

Pursuant to Section 50.51 of Title 10 of the Code of Federal Regulations (10 CFR 50.51), licenses to operate nuclear power plants are issued by the U.S. Nuclear Regulatory Commission (NRC) for a fixed period of time not to exceed 40 years; however, these licenses may be renewed by the NRC for a fixed period of time including a period not to exceed 20 years beyond expiration of the current operating license. The Commission's regulations in 10 CFR Part 54, (60 FR 22461) published on May 8, 1995, set forth the requirements for the renewal of operating licenses for commercial nuclear power plants (NPPs).

Applicants for license renewal are required by 10 CFR 54 (The License Renewal Rule) to perform an integrated plant assessment (IPA). As specified in 10 CFR 54.4, the applicant must identify the systems, structures, and components (SSCs) that are within the scope of license renewal (scoping). In addition, in accordance with 10 CFR 54.21(a)(1), the applicant must determine which of the SSCs are subject to an aging management review (screening). 10 CFR 54.21 (a)(2) requires the applicant to describe and justify the methods used to meet the requirements of 10 CFR 54.21(a)(1). Further, 10 CFR 54.21(a)(3) requires that, for each structure and component subject to an aging management review, the applicant must demonstrate that the effects of aging will be adequately managed so that the intended function(s) will be maintained consistent with the current licensing basis (CLB) for the period of extended operation (aging management program or AMP). 10 CFR 54.21(b) requires that each application contain CLB changes, in the form of an amendment, during NRC review of the license renewal application (LRA). 10 CFR 54.21(c) requires the applicant to provide an evaluation of Time-limited Aging Analyses (TLAAs) including a list of TLAAs, as defined in 10 CFR 54.3 (special reviews for equipment which has aging assumptions integral to the design process). Lastly, 10 CFR 54.21(d) requires that each LRA include a FSAR supplement containing a summary description of the intended aging management programs (AMPs) for the period of extended operation.

For the purposes of this task order, the BOP systems include auxiliary systems and steam and power conversion systems less HVAC and containment systems.

OBJECTIVE

The objective of this task order is to obtain technical expertise from Information Systems Laboratories (ISL) to assist in determining the adequacy of applicant's screening and scoping of balance of plant (BOP) systems and components as stated within the scope of the

license renewal application for the Indian Point Nuclear Power Plant, Units 2 and 3 pursuant to 10 CFR 54 requirements.

TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

This effort will require mechanical/systems engineering expertise, of senior-level and staff-level engineers, on an intermittent, part-time basis, with experience in commercial nuclear power reactor operations (specifically BOP systems), NRC License Renewal Regulations, and regulatory issues associated with BOP SSCs commonly found at commercial nuclear reactor plants.

The proposal should identify who will be designated as the project lead/Principal Investigator, and any other key personnel and the role they will play in performing the work.

WORK REQUIREMENTS AND SCHEDULE

Tasks

Scheduled Completion

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|----|--|---|
| 1. | In accordance with the requirements of Section 2.2 of NUREG-1800, perform a plant level scoping review of all the systems and structures listed in the tables of LRA Section 2.2 and determine if any of the systems and structures that perform their intended functions as defined in 10 CFR 54.4 is missing. Prepare a request for additional or clarifying information. Using the screening criteria found in the Brunswick License Renewal Safety Evaluation Report, ADAMS accession number: ML 05355034 dated December, 2005, determine which systems and structures will be reviewed using the "tier-two" process and which will be reviewed using the "tier-one" process ¹ . Prepare a technical letter report. | Four weeks after authorization of work. |
| 2. | In accordance with the requirements of Section 2.3 of NUREG-1800, perform a detailed review of all BOP systems according to the level of importance specified in the NUREG and identify those aspects of the application that need additional or clarifying information. Identify systems, if any, that need regional inspection support to verify the results of scoping and screening described in the LRA. Prepare a technical letter report. | |

¹ Based on the review findings, the level of effort for Task 2 may need to be modified. Also, the number of systems for Indian Point might be too few to separate into tiers.

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|---|---|
| a. First-half of the review. | Six weeks after authorization of work. |
| b. Second-half of the review. | Four weeks after completion of Subtask 2.a. |
| 3. On an as required basis, provide technical review and evaluation of additional information associated with clarifying the RAI or intent of the RAI, resolving an RAI or "open items," and addressing an issue raised by upper NRC management or the ACRS. This task includes participation in telephone conference calls as may be required. If applicable, prepare a technical letter report ² . | As mutually agreed upon; each request will be documented in an E-mail by the Technical Monitor. |
| 4. If necessary, prepare for and travel to the plant site or the applicant's offices to discuss and assist in resolving the RAIs or open items. Prepare a trip report. | One week after the trip. |
| 5. Review the applicant's responses to the RAIs and identify those issues that have been resolved along with the basis for resolution and those items for which further information may be needed, but for which resolution may not be readily forthcoming, i.e, the open items remain. Using the shell provided by the NRC, prepare a technical letter report, to include those items addressed in Tasks 3 and 4, above. | |
| a. Draft report. | Four weeks after receipt of the applicant's responses to the RAIs. |
| b. Incorporate NRC comments and prepare the final report. | Two weeks after receipt of NRC comments. |
| 6. Prepare for and travel to NRC HQ to participate in the ACRS Subcommittee meeting scheduled in 2008; prepare a trip report. | One week after the meeting. |
| 7. Participate in the ACRS full committee meeting meeting scheduled in 2008. | |

²

As mutually agreed upon, if a technical letter report is not required, document the request for assistance, the results provided and the date provided in the "Work Accomplished During the Period" section of the Monthly Business Letter Report.

LEVEL OF EFFORT

The estimated level of effort in professional staff hours apportioned among the tasks is as follows:

<u>Tasks</u>	<u>Level of Effort (hours)</u>	
	<u>FY-07</u>	<u>FY-08</u>
1.	180	
2.	400	
3.	160	
4.	80	
5.	340	
6.	0	40
7.	0	10
Subtotal	1160	50
Project management	100	
Program support	160	
Total (1470)	1420	50

PERIOD OF PERFORMANCE

The projected period of performance is date of task order award through January 31, 2009.

DELIVERABLESTechnical Reporting Requirements

TAC Number: TBD

Job Code: J-4072

NOTE: All reports are to be submitted electronically using WordPerfect 10.0 (font: Arial regular 11 point) to the Technical Monitor with a copy provided to the Project Officer. In all correspondence, include identifying information: JCN No., Task No., the applicant, the facility, TAC No., and NRC/NRR Division and Branch.

1. At the completion of Task 1, submit a technical letter report that contains the identified systems and structures that may be missing or mis-categorized and describe the need for the RAIs and the bases for the RAI. The report will also consist of a listing of those systems and structures for which a "tier-one" or a "tier-two" review is recommended, the basis for the

recommendation, the review schedule consistent with the milestones established under Task 2 and the assigned reviewer to each system or structure.

2. At the completion of Subtasks 2.a. and 2.b., submit a technical letter report that contains the list of RAIs the basis or bases for the RAIs clearly articulated.
3. For Task 3, at the completion of each request for technical assistance to address an RAI, close an open item or to address a management comment or concern, submit a technical letter report that contains the results of the work performed in the format suitable for incorporation into the safety analysis report, if applicable. If the submission of a technical letter report is not required, a brief summary of the request, results provided and date provided is to be described in the Monthly Business Letter Report.
4. At the completion of Task 4, submit a trip report that contains a summary of major discussion points, decisions and agreements reached, information provided by the applicant, open issues and follow-up actions, responsible party/individual(s) for the action(s), action(s) due date, and a list of attendees.
5. At the completion of Task 5, submit a technical letter report that contains the results of the review and evaluation of the RAI responses, essentially updating the report prepared under Task 2 (which will address 100% of the required systems in the review, i.e., work performed under Tasks 3 and 4). Within the report, identify those aspects of the application that are still considered as "Open Items" and the basis for why they remain open items.
6. At the completion of Task 6, submit a technical letter report that contains a summary of major discussion points, decisions and agreements reached, information provided by the applicant, open issues and follow-up actions, responsible party/individual(s) for the action(s), and the action(s) due date.

Monthly Business Reporting Requirements

A budget is to be developed for each Task based on the agreed upon allocation of the level of effort among the Tasks. Separate expenditures for each Task will be reported in the MBLR against the budget using the following format:

Authorized Cost Ceiling: \$ _____

Funds Obligated to date: \$ _____

Tasks	Planned Budget	Expenditures for the Period	Task Expenditures Cumulative	Percentage vs. Budget
1.	\$	\$	\$	%
2.	\$	\$	\$	%
3.	\$	\$	\$	%
4.	\$	\$	\$	%
5.	\$	\$	\$	%
6.	\$	\$	\$	%
7.	\$	\$	\$	%
Proj Mgt.	\$	\$	\$	%

Support	\$	\$	\$	%
Travel	\$	\$	\$	%
<u>Total</u>	\$	\$	\$	%

A monthly expense variance greater than 10 percent must be explained in the "Problem/Resolution" section.

NOTE: Once a variance reaches 15 percent, prior approval is required in writing from the NRC Project Officer, or a Modification is to be processed.

MEETINGS AND TRAVEL

One two-person, five-day trip to the plant site in Buchanan, NY

NRC FURNISHED MATERIAL

See Attachment 1 for other sources of information and documents needed.

OTHER APPLICABLE INFORMATION

License Fee Recovery

All work specified in this SOW is license fee recoverable and must be charged to TAC number indicated above.

Assumptions and Understandings

It is assumed that the documents listed **Attachment 1** or the appropriate reference locations (i.e. NRC web page address) can be accessed directly by the contractor.

It is understood that the review of this LRA will be conducted in such a manner that the majority of SER development will occur during the first six-month period, subject to unavoidable delays in obtaining needed information.

The review goal is to evaluate the LRA in such a way that the documentation that results consists of input to be used in the NRC safety evaluation report and identifies, simultaneously and on a continuing basis as needed, the need for RAIs. That is, where "gaps" exist in the report, there will exist an RAI or, ultimately, an initial open item. Initial open items are to eventually be resolved between the applicant and the NRC staff. See the specific reporting requirements that are defined in the Technical Reporting Requirements section.

The level of effort assumption for Tasks 1, and 3 is based on the average level of effort spent on this type of effort on past LRA reviews.

The level of effort assumption for Task 2 is based on reviewing the LRA, and its supporting documentation including the License Renewal Boundary Drawings and the Updated Final

Safety Analysis Report.

The level of effort assumption for Task 4 consists of two days for travel and report writing and three days for the meeting.

The level of effort assumption for Task 5 is based on addressing/resolving approximately 60 RAIs or open items which will take, on the average, five hours each to review, evaluate and prepare the documentation.

WEB ADDRESS FOR NRC FURNISHED MATERIAL AVAILABLE ON-LINE

The following NRC furnished materials are available on-line at the web addresses provided below:

1. License Renewal Rule, 10 CFR Part 54, "Requirements for Renewal of Operating Licenses For Nuclear Power Plants," as amended in 1995.
2. Standard Review Plan for License Renewal (SRP-LR) NUREG 1800, Revision 1 dated September 2005.
3. Regulatory Guide 1.188, Revision 1 dated September 2005, "Standard Format and Content for Applications to Renew Nuclear Power Plant Operating Licenses."
4. Nuclear Energy Institute Guidance in NEI- 95-10, "Nuclear Energy Institute (NEI) Guidance Document NEI 95-10, "Industry Guideline for Implementing the Requirements of 10 CFR Part 54--The License Renewal Rule," Revision 6, dated June, 2005.

The quick link to the various references to Title 10 of the Code of Federal Regulations (10 CFR) is shown below:

<http://www.nrc.gov/reading-rm/doc-collections/cfr/>

The quick link to the various license renewal references and guidance documents is shown below:

<http://www.nrc.gov/reactors/operating/licensing/renewal/guidance.html>