

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

BPA NO.

1. DATE OF ORDER JAN 15 2008		2. CONTRACT NO. (If any) NRC-42-07-483		6. SHIP TO:	
3. ORDER NO. 0015		MODIFICATION NO.		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Kala Shankar 301-492-3638 Mail Stop TWB 01-B10M Washington, DC 20555		4. REQUISITION/REFERENCE NO. 42-07-483T015 NRO09748315015		b. STREET ADDRESS	
7. TO:		c. CITY Washington		d. STATE DC	e. ZIP CODE 20555
a. NAME OF CONTRACTOR ENERGY RESEARCH INC		f. SHIP VIA		8. TYPE OF ORDER	
b. COMPANY NAME		<input type="checkbox"/> a. PURCHASE		<input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 6167 EXECUTIVE BLVD		REFERENCE YOUR Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.		Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
d. CITY ROCKVILLE	e. STATE MD	f. ZIP CODE 208523901		10. REQUISITIONING OFFICE NRO	
9. ACCOUNTING AND APPROPRIATION DATA 925-15-171-111; JC:Q-4015; BOC: 252A; 31X0200 Obligate: \$100,000 Contractor DUNS: 621211259		11. BUSINESS CLASSIFICATION (Check appropriate box(es))		12. F.O.B. POINT Destination	
<input checked="" type="checkbox"/> a. SMALL		<input type="checkbox"/> b. OTHER THAN SMALL		<input type="checkbox"/> c. DISADVANTAGED	
<input type="checkbox"/> d. WOMEN-OWNED		<input type="checkbox"/> e. HUBZone		<input type="checkbox"/> f. EMERGING SMALLBUSINESS	
<input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED		13. PLACE OF		14. GOVERNMENT B/L NO.	
a. INSPECTION		b. ACCEPTANCE		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)	
				16. DISCOUNT TERMS NET 30	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	Issuance of Task Order No. 15 under Contract No. NRC-42-07-483 Title: "Technical Assistance to support safety review of plant specific technical specifications in the combined license(RCOL) application referencing ABWR certified design" Period of Performance: 01/21/2009-01/20/2011 Estimated Reimbursable Cost: \$290,431.89 Fixed Fee: \$14,521.59 Total Cost Plus Fixed Fee: \$304,953.48 Funding in the amount of \$100,000 is being provided. See attached pages for a description of Task Order 15 and Statement of Work.					

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.	
21. MAIL INVOICE TO:					
a. NAME U.S. Nuclear Regulatory Commission Payment Team, Mail Stop TWB 01-B10M					
b. STREET ADDRESS (or P.O. Box) Attn: NRC-42-07-483, Task Order 15					
c. CITY Washington		d. STATE DC	e. ZIP CODE 20555		

22. UNITED STATES OF AMERICA BY (Signature) <i>Kala Shankar</i>		23. NAME (Typed) Kala Shankar Contracting Officer TITLE: CONTRACTING/ORDERING OFFICER	
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TEMPLATE - ADMO01

SUNSI REVIEW COMPLETE FEB 03 2009

OPTIONAL FORM 346 (2008) PRESCRIBED BY GSA FPMR (41 CFR) 101-11.6 (PR 53.213(f))

NRC-42-07-483 0015

Task Order No. 15 shall be in effect twenty four months from date of award, with a cost ceiling of \$304,953.48. The amount of \$290,431.89 represents the estimated reimbursable costs, and the amount of \$14,521.59 represents the fixed fee.

The amount obligated by the Government with respect to this task order is \$100,000, of which \$95,238.10 represents the estimated reimbursable costs, and the amount of \$4,761.90 represents the fixed fee.

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

Your contacts during the course of this task order are:

Technical Matter: Karen Chapman
Project Officer
301-415-3653

Contractual Matters: Kala Shankar
Contract Specialist
301-492-3638

Acceptance of Task Order No. 15 should be made by having an official, authorized to bind your organization, execute three copies of this document in the space provided and return two copies to the Contract Specialist at the address identified in Block No. 5 of the OF 347. You should retain the third copy for your records.

ACCEPTANCE:


NAME

President
TITLE

January 15, 2009
DATE

TASK ORDER STATEMENT OF WORK

JCN Q4015	Contractor Energy Research, Incorporated	Task Order No. 15 NRC-42-07-483 15
Applicant South Texas Project Nuclear Operating Company	Design / Site ABWR / STP 3 & 4	Docket No. 05200012 & 5300013
Title / Description Technical Assistance to Support Safety Review of Plant-Specific Technical Specifications in the Combined License (RCOL) Application Referencing the General Electric ABWR Certified Design		
TAC No. RX0581	B&R Number 925-15-171-111	SRP Section(s) 16.0, 16.1
NRC Task Order Project Officer (PO)		
Karen Chapman	301-415-3653	Karen.Chapman@nrc.gov
NRC Technical Monitor (TM)		
C Craig Harbuck	301-415-3140	Craig.Harbuck@nrc.gov

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.

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

The Technical Specifications Branch (CTSB) is planning to review plant-specific Technical Specifications (TS), TS Bases, and relevant Safety Analysis Report chapters proposed as part of COL applications referencing standard nuclear steam supply system (NSSS) designs that the NRC has certified, or is reviewing for certification, under 10 CFR Part 52. The CTSB is also planning to review generic TS for standard design certification applications also proposed under 10 CFR Part 52. Since CTSB's personnel resources to conduct these reviews are limited, technical personnel support will be required in order to complete the TS review within the nominal schedule for each COL or design certification application.

This task order Statement of Work (SOW) requests technical assistance to support CTSB's safety review of plant-specific TS in the South Texas Project (STP) Units 3 and 4 reference combined license (RCOL) applications referencing the Advanced Boiling Water Reactor (ABWR) certified design.

2.0 OBJECTIVE

The objective of this task order is to obtain expert technical expertise from the contractor to assist the staff in determining the adequacy of plant-specific TS (PTS) proposed in the STP Units 3 and 4 RCOL applications.

The PTS review will be guided by SRP Chapter 16.0, Revision 3, the ABWR DCD, applicable parts of standard technical specifications (STS) in Revision 3.1 of NUREG-1433 and NUREG-1434, and related guidance documents. The contractor will provide assistance in developing letter reports that request additional or clarifying information, preparing draft technical evaluation reports (TERs) which will serve as input into the draft and final safety evaluation reports (SERs), and provide technical hearing support to the staff during ACRS meetings and ASLB proceedings as needed by the staff.

3.0 WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES

Tasks/Standards	Scheduled Completion	Deliverables
1. Preliminaries		
1.1 REQUIREMENT (Reading): All contractor staff, including any subcontractors, assigned to this task order should become familiar with SRP Chapter 16, the STS (particularly Sections 1.0 and 3.0, and 3.0 Bases), the certified standard design generic TS and associated SER Chapter 16, and TSTF-GG-05-01, "Writer's Guide For Plant-Specific Improved Technical Specifications." STANDARD: Written confirmation that familiarization is complete	*10 days after contractor's receipt of the RCOL application from NRC.	Letter reporting completion of Subtask 1.1 by assigned contractor personnel.
1.2 REQUIREMENT (Training): All contractor staff, including any subcontractors, assigned to this task order should attend necessary technical reviewer training provided at NRC training facilities. STANDARD: Written confirmation that familiarization is complete.	*30 days or first available training session after contractor's receipt of the RCOL application from NRC.	Letter reporting completion of Subtask 1.2 training by assigned contractor personnel.
2. REQUIREMENT: Participate in a meeting or telephone conference with the TM and appropriate NRC staff to discuss the scope of the work, expectations and task order management. STANDARD: Attendance by individuals designated by NRC.	5 days after contractor's receipt of the RCOL application from NRC.	N/A

Tasks/Standards	Scheduled Completion	Deliverables
<p>3. REQUIREMENT (Safety Review): Review and determine the adequacy of the proposed plant-specific following the guidance in Section 12 of this SOW.</p> <p>STANDARD: Completed Technical Evaluation Report (TER) that follows the NRC provided template without deviation. No deviation from the guidance defined in Section III, RAI Guidance of Attachment1. One round of comment incorporation is acceptable.</p>		TER and RAIs, if applicable
<p>3.1 Requests for Additional Information (RAIs)</p> <p>Identify issues and the need for any additional or clarifying information and document as draft RAIs. Send the draft RAIs to the TM for review. (The TM will take 10 days (2 weeks) to review the draft RAIs. The TM will send the RAIs to the applicant and the contractor once the TM's comments have been resolved with the contractor.)</p>	*60 days after contractor's receipt of the RCOL application from NRC.	Draft RAIs
<p>3.2 Preliminary TER (PTER)*</p> <p>Prepare a PTER and send it to the TM for information.</p>	*15 days after contractor's receipt of the RAIs sent to the applicant.	PTER
<p>3.3 Draft TER (DTER)*</p> <p>Review the applicant's responses to the RAIs to determine if they resolve the outstanding issues. Identify open items and incorporate the review results in the draft TER (DTER) by revising the PTER. Send a copy of the DTER to the TM for review. (The TM will take 10 days (2 weeks) to review the DTER and discuss any comments with the contractor.)</p>	*30 days after contractor's receipt of the applicant's response to the initial RAIs.	DTER
<p>3.4 Revised DTER*</p> <p>Revise the DTER based on directions from the TM and send a copy to the TM. The revised DTER will serve as input to the safety evaluation report with open items (SER-OI).</p>	*10 days after the contractor's receipt of the TM's comments on the DTER.	Revised DTER

Tasks/Standards	Scheduled Completion	Deliverables
<p>4. OPTIONAL REQUIREMENT (<i>If applicable</i>) (Audit): If directed by the TM, prepare for and travel to the applicant's designated facilities and participate in an NRC review team.</p> <p>STANDARD: Complete evaluation as defined in Task. Submit Trip Report within 10 days of site review.</p>	<p>*30 days from meeting with NRC to discuss the plans for the audit.</p>	
<p>4.1 Instrumentation Audit the instrumentation settings and setpoint methodology.</p>	<p>During the 5-day audit trip.</p>	<p>(See 4.4)</p>
<p>4.2 RAI Responses Audit responses to resolved RAIs to verify proper resolution. Discuss open items with applicant.</p>	<p>During the 5-day audit trip.</p>	<p>(See 4.4)</p>
<p>4.3 Compliance with 10 CFR 50.36(d)(2)(ii) Audit process used by applicant to ensure any system or parameter or initial condition meeting one or more of the four criteria have an LCO in the proposed [generic] plant-specific technical specifications.</p>	<p>During the 5-day audit trip.</p>	<p>(See 4.4)</p>
<p>4.4 Trip Report Prepare a trip report (as an input to NRC Audit Report) to summarize the information reviewed, results of the audit, and meeting discussions. Send report to the TM.</p>	<p>*10 days after the end of the audit trip.</p>	<p>Audit Trip Report</p>
<p>5. REQUIREMENT: Review the applicant's response to the open items documented in the SER-OI [and the NRC Audit Report] and identify any unresolved issues. Prepare the final version of the TER by revising the DTER again. Send the TM the final TER, possibly containing unresolved issues. STANDARD: Complete Technical Evaluation Report that follows the NRC provided template without deviation.</p>	<p>*30 days after contractor's receipt of the applicant's response to the SER-OI [and the unresolved issues from the NRC Audit Report].</p>	<p>Final TER</p>

Tasks/Standards	Scheduled Completion	Deliverables
<p>6. REQUIREMENT: As needed and requested by the staff, provide technical support to the staff during related ACRS meetings and hearing proceedings.</p> <p>STANDARD: Ensure presentation materials are reviewed and approved by NRC staff.</p>	TBD	Prepare Presentation Materials. Attend Meetings, if required

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

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. This includes individuals with expertise in:

a. Engineering and Scientific Disciplines Required: (A minimum of a Bachelor's Degree in Engineering/Science or equivalent experience and at least seven years direct nuclear power related experience in each of the disciplines is required)

- Mechanical Systems
- Nuclear Systems
- Electrical Systems
- Reactor Systems
- Reactor Physics
- Reactor Fuel
- Risk and Reliability
- Radiological Engineering
- Containment Systems

b. Specialized Technical Areas:

- Accident Analysis
- Instrumentation & Control
- Reactor Operations

In addition, TS reviewers should have sufficient technical experience and background to quickly learn how to (1) use TS, (2) assess conformance of TS requirements with content and formatting conventions of the STS, (3) recognize when a TS provision is technically inadequate, and (4) recognize when a TS provision does not conform to 10 CFR 50.36.

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 (principal investigators, technical staff, employees, consultants, specialists or subcontractors) shall describe the individual's experience in applying his or her area of specialization to work in the proposed area. The use of particular personnel on this task order 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.: Q4015; Technical Assignment Control No. (TAC): RX0581; Task Order No.: 15; the applicant: STPNOC; and, the site: STP 3 and 4.

1. At the completion of Task 3, 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 4, submit a trip report, as an input to NRC audit report, that contains a summary of documents audited, the audit results of the structural design reports and design calculations, a summary of meeting discussion conducted with, the applicant list of outstanding issues, significance of these issues, and the basis for the conclusion. Incorporate the findings in the report developed under Task 3.
4. 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 & 5, and update of the Technical Evaluation Report developed under Task 3.

6.0 MEETINGS AND TRAVEL

Meeting- and Audit-Associated Travel

It is likely that a smaller group than the entire review team can accomplish some activities; the actual travel contingent will be determined by the NRC TM after discussion with the contractor PM. On average the actual travel time between the contractor and the meeting or work location is assumed to be 4 hours or less each way. Travel in excess of the total number of person-trips must be approved by the NRC TAPM; travel within the work scope limits will be approved by the NRC TM. Consider the following travel assumptions for planning the work effort.

- One 6-person, 1-day training at NRC facility (Subtask 1.2) if needed
- One 6-person, 1-day working meeting to kickoff project and contractor orientation if needed.
- One 2-person, 5-day trip to the applicant's facility (Subtask 4 - Audit) if needed.
- One 1-person, 1-day meeting for ASLB proceedings if needed.
- One 1-person, 1-day meeting for ACRS proceedings if needed.
- Six 1-person, 1-day quarterly reviewer coordination (counterpart) meetings.

Meetings Not Requiring Travel

At the discretion of the NRC TM, progress meetings may be conducted at the contractor's offices or via telephone or video conference.

7.0 NRC FURNISHED MATERIAL

The NRC TM will provide those NRC documents related to portions of the application that are readily available. The NRC TM will provide access to the applicant's safety analysis report, pertinent sections of the COL application, the DC application, or other NRC safety documents and docketed correspondence on related issues. The contractor staff will identify any additional NRC documentation that is needed and inform the TM. The TM will either provide the documentation to the contractor, or instruct the contractor to obtain it directly from NUDOCS, ADAMS, the NRC public document room, or the NRC website at www.nrc.gov.

8.0 LEVEL OF EFFORT

The following table presents contractor level of effort (LOE) estimates in hours based on subtasks, review type, contractor project management, and travel.

Level of Effort Code	Task Order Subtask (LPP Task)	Estimated Hours
A	1.1	96
A	1.2	48
A	1.2 Travel hours	48
A	2	48
A	2 Travel hours	48
A	3.1 (16.1)	163
A	3.1 (16.2)	160
A	3.1 (16.3)	160
A	3.1 (16.4)	160
A	3.1 (16.5)	160
A	3.1 (16.6)	160
A	3.2 (all)	40
A	3.3 (all)	40
A	3.4 (all)	40
Total Hours A		1371
B	Travel hours	16
B	4.1 (16.3)	16
B	4.2 (all)	16
B	4.3 (all)	16
B	4.4 (all)	40
Total Hours B		104
C	5	40
Total Hours C		40
D	6	56
D	Travel hours	16
Total Hours D		72
E	Project Mgt (all)	100
E	Travel hours	48
Total Hours E		148
Total Hours A, B, C, D, & E		1734

Actual LOE for the STP 3 and 4 PTS safety review project under this task order may be less than the above table indicates depending on the subtasks and associated travel as directed by the NRC TM.

The following table presents estimates of travel hours to and from meeting or work location assuming 8 hours of travel time per round trip per person.

Associated Subtask	Trip Description (Number of persons - Per Diem days)	Travel Hours - 8 hours Round Trip
1.2	Travel to 1-day Training (6 persons - 2.5 days) DC/RCOL only	48
2	Travel to 1-day Orientation (6 persons - 2.5 days) DC/RCOL only	48
4	Travel to Audit Location (2 persons - 4.5 days) DC/RCOL only	16
PM	6 trips - PM Quarterly Travel to Rockville - (1 person - 1.5 days)	48
6	Travel to ASLB Meeting (1 person - 1.5 days)	8
6	Travel to ASLB Meeting (1 person - 1.5 days)	8
Total Travel Hours		176
Number of round trip tickets total (if required)		22

The following table present by fiscal year calendar quarter an estimate of the total LOE by contractor personnel assuming the LOE presented in the preceding tables, and the current expectations for this RCOL application in FY2009 and FY2010. This table is provided to assist you in your planning.

Fiscal Year Quarter	9Q1	9Q2	9Q3	9Q4	10Q1	10Q2	10Q3	10Q4	11Q1	11Q2
STP 3&4 RCOL Application		A, .25E	B, .15E	C, .15E	.15E	.15E	.8D, .15E		.2D	
		1408 h	126 h	62 h	22 h	22 h	78 h		16h	

9.0 PERIOD OF PERFORMANCE

The projected period of performance is 24 months from authorization of work to finish.

10.0 OTHER APPLICABLE INFORMATION

a. License Fee Recovery

All work under this task order is fee recoverable and must be charged to the appropriate TAC number(s).

b. Assumptions and Understandings:

Subtask 1

The level of effort for Subtask 1.1 is based on the volume of materials to be reviewed; this task is for familiarity and not for evaluation.

The level of effort for Subtask 1.2 is based on a one-day new-reactor-technology course, if needed.

Subtask 2

The level of effort for Subtask 2 is based on the assumption that the contractor is familiar with SRP Section 16.0 and SRP Section 16.1.

Subtask 3

The level of effort on Subtask 3.1 is based on the number and complexity of the requirements in the generic TS. It is also based on the assumption that the contractor will follow the guidance provided in Section 12 of this SOW. The contractor should send the TM draft RAIs as they are identified, to expedite NRC review and finalization of the RAIs for sending to the applicant. Depending upon NRC staff available to perform direct review, the TM may authorize contractor to work on fewer than the six LPP Tasks listed in the level of effort table in Section 8 of this SOW (Subtask 3.1). The six LPP areas of review were chosen to entail similar levels of effort and correspond to the following TS categories, by LPP Task Number and TS Section Number:

16.1 1.0 Use and application, 3.0 Limiting Condition for Operation (LCO) applicability and Surveillance Requirement (SR) applicability, 3.7 Plant Systems, 3.9 Refueling, 4.0 Design Features, and 5.0 Administrative Controls.

16.2 2.0 Safety Limits, 3.1 Reactor Control Systems, 3.2 Core Operating Limits, and 3.10 Special Operations.

16.3 3.3 Instrumentation and Control (I&C) systems, including limiting safety system settings and instrument setpoint methodology for digital I&C systems.

16.4 3.4 Reactor Coolant Systems and 3.5 Emergency Core Cooling Systems.

16.5 3.6 Containment Systems.

16.6 3.8 Electrical Power Systems.

The level of effort for Subtasks 3.2, 3.3, and 3.4 is based on the assumption that on average there will be 100 RAIs for the STP 3 and 4 RCOL applications. Average effort to review and document the disposition of each RAI response is assumed to be 1.0 hour. However, do not construe these assumptions as required objectives to be met.

Subtask 4

The level of effort for Subtask 4 is based on a two-person, four or five-day trip (including travel time) plus one day to prepare for the trip and four days to write the trip report.

Subtask 5

The level of effort for Subtask 5 is based on the assumed number of open items to resolve. This is 20 for the STP 3 and 4 RCOL applications. Average effort to review each open item response and document its resolution in the FTER is assumed to be 2 hours.

Subtask 6

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

Access to NRC Website

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

Conference Telephone Calls

The level of effort covers 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.

Meetings with NRC Staff at the Contractor's Offices

During the course of the review, the Technical Monitor, and possibly other NRC personnel, may travel to the contractor site to discuss the status of the review and participate in the resolution of open items. The level of effort covers such a meeting.

11.0 OUTLINE AND FORMAT FOR TECHNICAL EVALUATION REPORTS

The primary deliverable, or output of this regulatory review, shall be the Technical Evaluation Report (TER). The TER will serve as input to the NRC staff's Safety Evaluation Report (SER) which will document the NRC's technical, safety, and legal basis for approving the RCOL application. The TER must provide sufficient information to adequately explain the NRC staff's rationale for why there is *reasonable assurance* that public health and safety is protected. The TER, and ultimately the SER, should be written in a manner whereby a person with a technical (non-nuclear) background and unfamiliar with the applicant's request could understand the basis for the staff's conclusions.

The content and format of the TER should be determined with TM approval prior to commencing Subtask 3.2 concerning the PTER. The suggested TER format is further described in Attachment 1 to this Task Order Statement of Work.

12.0 SAFETY REVIEW GUIDANCE

The NRC TM will provide the contractor application-specific guidance prior to start of work but after authorization. The following guidance is generally applicable to the review of TS.

Preparation for Reviewing TS

Standard Technical Specifications

- Reviewers should become familiar with the STS and STS Bases for topics relevant to their area of technical expertise.
- All reviewers should become familiar with STS Sections 1.0 and 3.0, and 3.0 Bases, and the certified standard design generic TS, and Chapter 16 of the associated NRC SER, and TSTF-GG-05-01, "Writer's Guide for Plant-Specific Improved Technical Specifications."

General Information

- Reviewers should become familiar with:
 - a. The regulations in the following sections of 10 CFR Part 50:
 - 50.34, 50.36, 50.36a, 50.55a, 50.59, 50.67
 - Appendix A.
 - b. 10 CFR Part 52 and Appendix A to Part 52.
 - c. Plant safety analyses and their relationship to technical specifications.
 - d. Applications of probabilistic risk assessment (PRA) to technical specifications.
 - e. Regulatory Guide 1.206 and Standard Review Plan Chapters 16.0 and 16.1.
 - f. Existing reactor technologies (NSSS designs) associated with the STS (NUREGS 1430-1434), and advanced reactor designs (ABWR, ESBWR, AP1000, EPR, and USAPWR) most similar to the design applied for in the RCOL application addressed by this task order SOW.

Review Expectations

For RCOL PTS safety review projects, the NRC depends on the contractor to verify that all departures from the generic TS, including the associated Bases, have been identified. Departures are either technical or administrative, which includes editorial. In its application the applicant is expected to have justified all technical departures in accordance with the guidance in RG 1.206. Technical departures not identified by the applicant require an RAI comment, regardless of whether the departure seems acceptable, to ensure the applicant includes adequate justification in its application. In addition, technical departures from the generic TS require an exemption from the regulations. Guidance for preparing Requests for Additional Information is provided in Attachment 2.

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

1. Outline, Format, and Content for the TER Input
2. Guidance for Preparing Requests for Additional Information