

October 30, 2007

MEMORANDUM TO: Mohammed Shuaibi, Chief
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

FROM: Robert Radlinski, Leader R/A
Fire Protection Team
Division of Safety Systems and Risk Assessment
Office of New Reactors

SUBJECT: ACCEPTANCE REVIEW RESULTS FOR THE SOUTH TEXAS
PROJECT UNITS 3 AND 4 REFERENCE COMBINED LICENSE
APPLICATION (TAC NO. RA0308)

The Fire Protection Team (SFPT) has completed its acceptance review of the South Texas Project Units 3 and 4 Reference Combined License application (RCOLA) submitted by STP Nuclear Operating Company (STPNOC). This review covered the following parts and sections of the RCOLA for which SFPT has primary and secondary review responsibilities and, in addition, applicable interface documentation referenced in the FSAR:

- Part 2 - FSAR Sections 9.5.1 (primary) and 14.3 (secondary)
- Part 7 - Departures Report (fire protection related departures)
- Part 9 - ITAAC (Section 9.3, Site-specific ITAAC related to fire protection)
- Referenced documentation
 - ABWR Design Control Document (DCD) Tier 1/2, Revision #4: Tier 1 Section 2.15.6 and Tier 2 Sections 9.5.1, 9.5.13, and 14.3
 - Topical Report TR-NEDO 33325, Advanced Boiling Water Reactor (ABWR) Common Equipment and Structures

Completeness and Adequacy

Based on this review, I conclude that the application contains the information required by regulations and that the submitted information is technically adequate for SFPT to commence the STP Units 3 and 4 RCOLA detailed technical review.

Resource Requirements

The estimated effort for the detailed technical review of the following STP Units 3 and 4 RCOLA SRP Sections by SFPT varies materially from the pre-baseline model in the EPM. The quantity of new, site-specific design information provided in the RCOLA for the fire protection program is considerably less than what was anticipated. For each section, I have provided an updated resource plan for these tasks in Enclosure 2. The resource plan includes the new estimated level of effort and the resource assigned. The expected start date is the application accepted milestone. Pre-baseline completion dates are not impacted by the change in resource requirements. New resource plans have been submitted for the following SRP sections:

15/1

- FSAR Section 9.5.1 and 14.3:

- Review Phase 1
- Review Phase 2
- Total staff-hours

Out of Scope

Review Dependencies.

SFPT's detailed technical review of the STP Units 3 and 4 RCOLA is independent of other ongoing application reviews by the staff.

Enclosures:

1. Table 1, Safety Analysis Report Acceptance Review Results for South Texas Project Units 3 and 4 ABWR RCOL
2. Table 2, SFPT Resource Plan Revisions for STP Units 3 and 4 ABWR RCOL Review

CONTACT: Bob Radlinski, DSRA/NRO
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- FSAR Section 9.5.1 and 14.3;
 - Review Phase 1
 - Review Phase 2
 - Total staff-hours

Out of Scope

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NAME	R. Radlinski /HMD
DATE	10/30/2007

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Table 1: Safety Analysis Report Acceptance Review Results for South Texas Project Units 3 and 4 ABWR RCOL

SER Section: 9.5.1
 Branch Chief: R. Radlinski

Technical Branch: SFPT (Primary)
 SRP Section: 9.5.1

Technical Review
 Date: 10/25/077

Out of Scope

1. Review Area/Topic	Completeness and Technical Sufficiency Which Form Basis for Acceptability for Docketing				Changes to Planning Assumptions to be Considered in Development of Baseline Review Schedule			Review Dependencies Among Concurrent Reviews		
	2. Does COL section address the items required by regulation (refer to RG 1.206, Section C.IV.1)? (Yes/No)	3. Is COL section technically sufficient for this review area/topic? (yes/no)**	4. Can the technical deficiency be resolved through the RAI process? (yes/no)	5. If no, for either completeness or technical sufficiency, identify deficiency(ies). This information will be needed for technical review.	6. Is the identified technical deficiency related to a risk-significant SSC)? (yes/no)	7. Are the pre-baseline review schedule and estimated staff-hours appropriate? (yes/no)	8. For each no, identify the change (or basis for change).	9. Identify the total review time in staff-hours	10. Can the review of the area/topic be completed without the completion of a concurrent review? (yes/no)	11. For each no, identify which application (DCD or COLA) and section.
COL: Information Item	Yes	Yes	N/A	N/A	N/A	No	See Table 2	Table 2	Yes	
Departures from Design Cert.	Yes	Yes	N/A	N/A	N/A	No	See Table 2	Table 2	Yes	
Commitments	Yes	Yes	N/A	N/A	N/A	No	See Table 2	Table 2	Yes	
FP Operational Program Description	Yes	Yes	N/A	N/A	N/A	No	See Table 2	Table 2	Yes	
List of Applicable Codes and Standards	Yes	Yes	N/A	N/A	N/A	No	See Table 2	Table 2	Yes	
Detailed FP System P&ID	Note 1					No	See Table 2	Table 2	Yes	
Final Fire Hazards Analysis	Note 1					No	See Table 2	Table 2	Yes	
Final Post-Fire Safe-Shutdown Circuit Analysis	Note 1					No	See Table 2	Table 2	Yes	

Note 1: This information was recognized in RG 1.206 as likely to not be available at the COL stage. The applicant should provide a description of the plan and schedule for submitting the information. Unless noted otherwise, STP has included the requested information as a Commitment.

**Table 2: SFPT Resource Plan Revisions for
STP Units 3 and 4 ABWR RCOL Review**

Task Changes						Resource Changes		
SER Section No.	SER Section Title	Task	Concurrent Dependent Review Activity	Revised Start Date	Revised Finish Date	Name of Resource	Change Type	Revised Hours
9.5.1	Fire Protection	PSER and RAIs prepared	N/A			R Radlinski	Revised	Out of Scope
14.3	ITAAC	PSER and RAIs prepared	N/A			R Radlinski	New	
9.5.1	Fire Protection	SER with OIs prepared	N/A			R Radlinski	Revised	
9.5.1	Auxiliary Systems	Branch Chief concurrence	N/A			R Radlinski	Revised	
14.3	ITAAC	SER with OIs prepared	N/A			R Radlinski	New	
14.3	ITAAC	Branch Chief concurrence	N/A			R Radlinski	Revised	

Note: All other tasks assigned to SFPT for this project have been rolled into the tasks listed above. The tasks for SRP Sections 8.1, 8.3.1, 8.3.2, 13.2.2, and 19.1.5.2 were simply to review these sections to verify that any statements regarding fire protection contained in these sections are consistent with the description in Section 9.5.1. These tasks do not warrant separate listings in the schedule. This consolidation is applicable to all SFPT reviews.