December 22, 2009

Mr. Scott Head, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 241 RELATED TO SRP SECTIONS 14.02 AND 16 FOR THE SOUTH TEXAS PROJECT COMBINED LICENSE APPLICATION

Dear Mr. Head

By letter dated September 20, 2007, STP Nuclear Operating Company (STP) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within **30** days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, I can be reached at 301-415-2849 or by e-mail at Stacy.Joseph@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Stacy Joseph, Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 4090 and 4160

Enclosures:
Request for Additional Information

cc: William Mookhoek
Steve Cashell

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OFFICE	CTSB/TR	CTSB /BC	NGE2/PM	NGE2/L-PM
NAME (4090)	CHarbuck	MKowal	SJoseph	GWunder
DATE	11/30/2009	12/1/2009	12/1/2009	12/22/2009

OFFICE	CQVB/TR	CQVB /BC	NGE2/PM	NGE2/L-PM
NAME (4160)	FTalbot	RRasmussen	SJoseph	GWunder
DATE	12/15/2009	12/15/2009	12/15/2009	12/22/2009

***Approval captured electronically in the electronic RAI system.**
OFFICIAL RECORD COPY

Request for Additional Information No. 4090 Revision 2

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 16 - Technical Specifications
Application Section: 16.3.6.1.3; 16.3.7.3

QUESTIONS for Technical Specification Branch (CTSB)

16-66

In STD DEP 16.3-73, as indicated by the markup of the “Applicable Safety Analyses (ASA)” section of the bases for generic TS 3.6.1.3 in Chapter 16 of Part 2 of the COL application, the applicant proposes to omit the fifth paragraph of the "ASA" section from the bases for plant-specifc TS 3.6.1.3. This paragraph states,

> The primary containment purge valves may be unable to close in the environment following a LOCA. Therefore, each of the purge valves is required to remain sealed closed during MODES 1, 2, and 3. In this case, the single failure criterion remains applicable to the primary containment purge valve due to failure in the control circuit associated with each valve. Again, the primary containment purge valve design precludes a single failure from compromising primary containment OPERABILITY as long as the system is operated in accordance with this LCO.

The applicant provided no description of, or justification for this omission in its discussion of STD DEP 16.3-73 in Section 2.2.2 of Part 7 of Revision 3 of the COL application. This paragraph is bracketed in the "ASA" section of the bases for BWR/6 STS 3.6.1.3, “PCIVs,” (NUREG-1434) and applies to units with primary containment purge valves that are not qualified to close under accident conditions. The applicant is requested to justify this change in STD DEP 16.3-73.

16-67

STD DEP 16.3-74 proposes to correct the bases for GTS SR 3.6.1.3.9 by replacing the sentence, “The LOGIC SYSTEM FUNCTIONAL TEST in SR 3.3.6.3.6 overlaps this SR to provide complete testing of the safety function.” with the sentence “The testing in LCO 3.3.1.1 and LCO 3.3.1.4 overlaps this SR to provide complete testing of the safety function.” GTS SR 3.6.1.3.9 states,“Verify each automatic PCIV actuates to the isolation position on an actual or simulated isolation signal.” The instrumentation SR that typically overlaps such SRs in the STS is the Logic System Functional Test (LSFT); however, GTS 3.3.1.1 and GTS 3.3.1.4 do not specify a LSFT. The applicant is requested to revise this departure to make clear, in the bases for PTS 3.6.1.3, which SRs in PTS 3.3.1.1 and PTS 3.3.1.4 overlap the SR in PTS 3.6.1.3 that corresponds to GTS SR 3.6.1.3.9.

STD DEP 16.3-46 proposes a similar change to the bases for GTS SR 3.7.3.5. The applicant is requested to revise this departure to make clear, in the bases for PTS 3.7.3, which SRs in PTS 3.3.1.1 and PTS 3.3.1.4 overlap the SR in PTS 3.7.3 that corresponds to GTS SR 3.7.3.5.

Enclosure

Request for Additional Information No. 4160 Revision 3

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants
Application Section: Section 14.2.S.1

QUESTIONS for Quality and Vendor Branch 2 (ESBWR/ABWR) (CQVB)

14.02-13

In FSAR Section 14.2S.1, "Organization and Training in Support of the Initial Test Program," the COL applicant stated “training for plant staff is described in Section 13.4.” The staff did not find any training requirements in Revision 3 to FSAR Section 13.4, “Review and Audit,” but did find nuclear industry training requirements and guidance in FSAR Sections 13.1.3,13.2 and 13.4S.

Based on the above information, the NRC staff requests that the COL applicant update FSAR Section 14.2S-1 to incorporate the correct cross reference to training requirements for ITP personnel in FSAR Chapter 13.