May 6, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 07 RELATED TO THE SRP SECTION 10.04.07 FOR THE SOUTH TEXAS COMBINED LICENSE APPLICATION

Dear Mr. Gibson:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) 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 45 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 301-415-1494 or by e-mail at george.wunder@nrc.gov.

Sincerely,

/RA/

George F. Wunder, Senior 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. 139

Enclosure:
Request for Additional Information

cc: William Mookhoek

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***Approval captured electronically in the electronic RAI system.**

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Request for Additional Information
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 10.04.07 - Condensate and Feedwater System
Application Section: 10.4.7

QUESTION

10.04.07-1

FSAR Section 10.4.7 describes the STP condensate and feedwater system (CFS) which incorporates by reference the information from Section 10.4.7 of the ABWR DCD with departure STP DEP 10.4-5. The departure redesigns the system by adding condensate booster pumps and increasing the number of reactor feed, and heater drain pumps in the CFS, thus modifying the functional arrangement of the system. Tier 1, Section 2.10 of the STP COLA incorporates by reference Tier 1, Section 2.10 of the ABWR DCD, which contains a design description of the CFS and the applicable system design certification ITAAC in Table 2.10.2a, and Figure 2.10.2a. Since the departure taken in FSAR Section 10.4.7 results in a change to the functional arrangement of the system, and the proposed system in the FSAR is no longer consistent with the one in the ABWR DCD, please provide justification for why a departure to ITAAC Table 2.10.2a and Figure 2.10.2a is not being made to be consistent with the STP CFS system described in FSAR section 10.4.7.