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. 26 RELATED TO THE SRP SECTION 09.03.03 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. 103

Enclosure:
Request for Additional Information

cc: William Mookhoek

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
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Docket Nos.: 52-012
52-013

eRAI Tracking No. 103

Enclosure:
Request for Additional Information

cc: William Mookhoek

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NAME	JHernandez	PWilson	SBrock	GWunder
DATE	04/02/08	04/03/08	04/16/08	05/06/08

***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 Nos: 52-012 and 52-013
SRP Section: 09.03.03 - Equipment and Floor Drainage System
Application Section: 9.3.8

QUESTIONS

09.03.03-1

ABWR DCD Tier 2 Section 9.3.8.1.1, “Safety Design Bases”, states that the radioactive drain transfer collection piping shall be non-nuclear safety class and Quality Group D with the exception of the containment penetrations and piping in the drywell, which should be Seismic Category 1 and Quality Group B. Please clarify if MOV 006 and MOV 007 in Sheet 1 of COLA FSAR Revision 1, Figure 9.3 11, are containment isolation valves. Also, given the low quality/resolution of the drawings, the staff was unable to verify the designations of the Seismic Category 1 and Quality Group B portions of the system described above. In addition, the staff noted that there are inconsistencies between COLA FSAR Figure 9.3-11 and ABWR DCD Tier 2 Figure 1.7-1. For example, the piping identification format does not follow the convention described in Note 10 of Figure 1.7-1. Also, in Sheets 13, 15, and 17 of Figure 9.3-11 the symbols for some check valves are inconsistent with Note 6 of Figure 1.7-1. Please provide P&IDs with higher resolution and symbols that are legible and consistent with Figure 1.7 1.

09.03.03-2

ABWR DCD Section 9.3.8.1.1, “Safety Design Bases” Item 5(a) states that backflow check valves should be included in the ECCS equipment room sumps. Item 5(b) states that floor drain piping in each divisional area of the ECCS pump rooms and the Control Building shall be arranged so that flooding or backflow in one quadrant will not adversely affect other quadrants. The staff could not locate in the P&IDs the check valves and sumps for each ECCS equipment room. Please include these components (or add a reference to) in COLA FSAR Figure 9.3-11.