

May 15, 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. 46 RELATED TO
THE SRP SECTION 05.02.05 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.

Mr. Gregory Gibson

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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. 162

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Gregory Gibson

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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
STP Nuclear Operating Company.
Docket Nos. 52-012 and 52-013

SRP Section: 05.02.05 - Reactor Coolant Pressure Boundary Leakage Detection
Application Section: 5.2.5

QUESTION

05.02.05-1

5.2.5-1 STD DEP 7.3-12 describes modifications to the Technical Specification limits and alarm setpoint for Reactor Coolant Pressure Boundary Leakage. The total leakage limit, averaged over the previous 24-hour period is changed from 95 L/min (25 gpm) to 114 L/min (30 gpm); the unidentified leakage limit is changed from 3.785 L/min (1 gpm) to 19 L/min (5 gpm); and a limit of unidentified leakage increase of 8 L/min (2 gpm) within the previous four hour period while in Mode 1 is added. Section 5.2.5.9 of the Tier 2 FSAR states that the changes in total leakage limit and unidentified leakage limit satisfies Position C.9 in Regulatory Guide (RG) 1.45. Please provide information to address how Regulatory Positions C.2 and C.5 in RG 1.45 are satisfied when evaluating this departure. Include this information in the FSAR and/or the departures report (as appropriate), and provide a markup in your response.