

October 6, 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. 228 RELATED TO
SRP SECTION 14.03.06 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 3635

Enclosures:
Request for Additional Information

cc: William Mookhoek
Steve Cashell

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Enclosures:
Request for Additional Information

cc:
Mr. William Mookhoek
Mr. Steve Cashell

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NRO-002

OFFICE	EEB/TR	EEB/BC	NGE2/PM	NGE2/L-PM
NAME	BBhatia	RJenkins	SJoseph	GWunder
DATE	8/27/2009	9/2/2009	9/10/2009	10/6/2009

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

Request for Additional Information No. 3635 Revision 2

**South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013**

**SRP Section: 14.03.06 - Electrical Systems - Inspections, Tests, Analyses, and Acceptance
Criteria**

Application Section: 14.03.06

QUESTIONS for Electrical Engineering Branch (EEB)

14.03.06-6

In RAI 14.03.06-5, the staff requested that the applicant address the ITAAC provided for lightning and grounding protection for the offsite power system. In response to the staff request for additional information, the applicant added item 8 to COLA Part 9, Section 3.0, Table 3.0-2. This item, however, under the Heading "Inspections, Tests, Analyses," specifies that, "Inspections of the as-built offsite power system will be performed." Additionally, under the Heading "Acceptance Criteria," this item requires confirmation that "Lightning protection and grounding features exist for the offsite power system."

Subsection 8A.1.3 of the STP FSAR states: "Ground resistance measurements will be performed per guidance provided by IEEE-81 to determine that the required value of one ohm or less has been met and additions to the system will be made, if necessary, to meet the target resistance after site preparation and prior to construction of the permanent buildings." Confirm that ground resistance measurements will be performed in accordance with the above cited FSAR subsection and that the acceptance criteria will be less than 1 ohm as specified in the same subsection. The columns "Inspections, Tests, Analyses" and "Acceptance Criteria" of COLA Part 9, Section 3.0, Table 3.0-2, should be revised accordingly.

Enclosure