

July 14, 2010

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 351 RELATED TO
SRP SECTION 2.5.4 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 **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.

S. Head

-2-

If you have any questions or comments concerning this matter, I can be reached at 301-415-6197 or by e-mail at Tekia.Govan@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Tekia V. Govan, Project Manager
ABWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013
eRAI Tracking No. 4824

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Bense

S. Head

-2-

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OFFICE	RGS1	RGS1	NGE2/PM	NGE2/L-PM
NAME	WBieganousky	RKaras	TGovan	GWunder
DATE	6/16/2010	6/16/2010	7/13/2010	7/14/2010

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

OFFICIAL RECORD COPY

Request for Additional Information No. 4824 Revision 3

**South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations
Application Section: 2.5.4.5**

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.04-37

In your response to RAI 2.5.4-36 you provided updated ITAACS for backfill, shear wave velocity and settlement in Table 3.0-11, "Backfill Under Seismic Category 1 Structures" and Table 3.0-13, "Settlement". With respect to the third ITAAC regarding the engineering properties of backfill, and in accordance with 10 CFR 100.23, please specify the tests to be performed, frequency of testing, and test standard employed (ASTM, USACE), in the "Inspections, Tests, and Analyses" column of the ITAAC.

Enclosure