

April 16, 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. 335 RELATED TO
SRP SECTION 2.4 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 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.

S. Head

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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 G. Wunder for:/

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. 4559

Enclosure:
Request for Additional Information

cc:
Mr. William Mookhoek
Mr. Richard Bense

S. Head

- 2 -

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OFFICE	CIB2	CIB2	NGE2/PM	NGE2/L-PM
NAME	SDowney	NRay	TGovan	GWunder
DATE	3/24/2010	3/24/2010	4/15/2010	4/15/2010

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

OFFICIAL RECORD COPY

Request for Additional Information No. 4559 Revision 3

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

SRP Section: 05.03.02 - Pressure-Temperature Limits, Upper-Shelf Energy, and Pressurized
Thermal Shock

Application Section: 05.03.02/ Topical Report U7-C-STP-NRC-090080

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR
Projects) (CIB2)

05.03.02-5

Revise the STP 3&4 Pressure and Temperature Limits Report (U7-C-STP-NRC-090080) to
provide all pressure-temperature (P-T) limit curves as a function of coolant temperature.