

April 14, 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. 94 RELATED TO  
SRP SECTION 03.04.01 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 301-415-8484 or by e-mail at [Tom.Tai@nrc.gov](mailto:Tom.Tai@nrc.gov) or you may contact George Wunder at 301-415-1494 or [George.Wunder@nrc.gov](mailto:George.Wunder@nrc.gov).

Sincerely,

**/RA/**

Tom M. Tai, Senior Project Manager  
ABWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-012  
52-013

eRAI Tracking No. 2534

Enclosure:  
Request for Additional Information

cc: William Mookhoek  
James Cook  
John Price

S. Head

-2-

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Enclosure:  
Request for Additional Information

cc: William Mookhoek  
James Cook  
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NRO-002

OFFICE	RHEB/TR	RHEB/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	Hahn	RRaione	TTai	SBrock	GWunder
DATE	4/2/09	4/2/09	4/14/09	4/7/09	4/7/09

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

**OFFICIAL RECORD COPY**

**Request for Additional Information No. 2534 Revision 2**

**4/14/2009**

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

**SRP Section: 03.04.01 - Internal Flood Protection for Onsite Equipment Failures  
Application Section: FSAR Section 3.4**

QUESTIONS for Hydrologic Engineering Branch (RHEB)

**03.04.01-7**

Table 3.4-1 of FSAR Section 3.4 should be revised in consideration of the following: (1) Include flood protection parameters for safety-related Cooling Towers and Reactor Service Water Powerhouse, or explain why they were excluded in the table; (2) the units in the table should be mm msl or ft msl (mean sea level); (3) How were the design flood levels provided in Table 3.4-1 in the 1st row assigned? Explain why design flood levels for the Service Building, Radwaste Building, and Turbine Building are lower than the estimated maximum external flooding level; (4) explain why the design ground water level for the Ultimate heat Sink is lower than those for other buildings; (5) what is the definition of "reference plant grade" and how does it differ from the actual plant grade; (6) check and correct the signs (+ or -) of some parameters values if they are incorrect; and (7) on the last row, why are the access openings of the Radwaste Building and the Ultimate Heat Sink listed as "None."

Enclosure