

May 21, 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. 107 RELATED TO
SRP SECTION 04.06 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.

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

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,

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

Docket Nos.: 52-012 and 52-013
eRAI Tracking No. 2364 and 2370

Enclosure:
Request for Additional Information

cc:
William Mookhoek
Richard Bense

Distribution:
PUBLIC
NGE 1/2 R/F
GWunder, NRO
BAbeywickrama, NRO
JGilmer, NRO
JDonoghue, NRO
SBrock, OGC
RidsNroDserRsac
RidsNroDnrlNge2

ADAMS Accession No.:ML091400432

NRO-002

OFFICE	SRSB/TR	SRSB/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	JGilmer	JDonoghue	TGovan	SBrock	GWunder
DATE	04/23/2009	04/23/2009	04/28/2009	05/05/2009	05/21/2009

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

OFFICIAL RECORD COPY

Request for Additional Information No. 2364 Revision 2

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

**SRP Section: 04.06 - Functional Design of Control Rod Drive System
Application Section: 4.6.1.2.3**

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

04.06-2

In Section 4.6.1.2.3, "Hydraulic Control Units", Standard Departure 4.6-1 deletes the phrase "a small pump and associated", so that the text would read "The test fixture contains hydraulic controls to pressurize the underside of the hollow piston." Since hydraulic controls alone cannot perform the pressurization function, please clarify the intended description of the special test fixture and revise FSAR accordingly.

Enclosure

Request for Additional Information No. 2370 Revision 2

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

SRP Section: 04.06 - Functional Design of Control Rod Drive System

Application Section: 4.6.1.2.4.1

QUESTIONS for Reactor System, Nuclear Performance and Code Review (SRSB)

04.06-3

In Section 4.6.1.2.4.1, it is stated that "Approximately 4 L/min purge flow is provided to the NBS reference leg instrument lines." Provide the basis (assumptions, boundary conditions, references) for this value.