

February 1, 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. 309 RELATED TO
SRP SECTION 4.3 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,

/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. 4143 and 4161

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Bense

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

ADAMS Accession No.: ML100330456

NRO-002

OFFICE	SRSB	SRSB	NGE2/PM	NGE2/L-PM
NAME	JDorn	JDonoghue	TGovan	GWunder
DATE	12/15/2010	1/7/2010	2/1/2010	2/1/2010

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

OFFICIAL RECORD COPY

Request for Additional Information No. 4143 Revision 3

**South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket No. 52-012 and 52-013
SRP Section: 04.03 - Nuclear Design
Application Section: 4.3**

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

04.03-2

The STP-3/4 COL application states that no exceptions were taken to Section 4.3 of the generic ABWR DCD. However, Section 4.3 of the STP-3/4 COL application shows inconsistencies in the typical loading patterns in Figure 4.3-2. Provide an explanation for these inconsistencies between the STP-3/4 COL application and the generic ABWR DCD.

Enclosure

Request for Additional Information No. 4161 Revision 3

**South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket No. 52-012 and 52-013
SRP Section: 04.03 - Nuclear Design
Application Section: 4.3**

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

04.03-3

The STP response to RAI 4.3-1 states that "FSAR Figure 4A-1a and Figure 4A-1d are figures which were incorporated by reference from the ABWR DCD with no departures or supplements." This response is unacceptable because it is inaccurate.

The NRC staff understands that it was the applicant's intention to incorporate Figures 4A-1a and 4A-1d by reference. However, when NRC staff compared these figures in the ABWR DCD to what was provided by STP in Part 10 of the COLA, the figures were not identical. Please address this inconsistency.