

July 30, 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. 354 RELATED TO
SRP SECTION 16 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 301-415-2849 or by e-mail at Stacy.Joseph@nrc.gov or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Stacy Joseph, Project Manager
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 4826

Enclosures:
Request for Additional Information

cc:
Mr. William Mookhoek
Mr. G. Steve Cashell

S. Head

- 2 -

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NRO-002

	CIB2/TR	CIB2/BC	BWR/PM	OGC	NGE2/L-PM
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DATE	6/17/2010	6/17/2010	5/23/2010	7/6/2010	7/29/2010

***Approval captured electronically in the electronic RAI system.
OFFICIAL RECORD COPY**

Request for Additional Information No. 4826 Revision 0

7/29/2010

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Company
Docket No. 52-012 and 52-013
SRP Section: 16 - Technical Specifications
Application Section: 16

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

16-70

The NRC staff was informed by the applicant for STP Units 3 and 4 that the applicant interprets the ABWR Design Control Document (DCD) and the STP Units 3 and 4 Final Safety Analysis Report (FSAR) as allowing plant operation with one main steamline (MSL) isolated if a safety analysis and applicable procedures are developed to justify such operation. The applicant is requested to clarify the STP Units 3 and 4 FSAR and the bases for plant-specific TS 3.3.1.1 Required Action Q.1, TS 3.3.1.2 Required Action L.1, and TS 3.6.1.3 Required Action A.1 regarding plant operation with one MSL isolated. For example, prior to plant operation with one MSL isolated, an isolated-MSL-specific justification would need to be prepared that would evaluate the potential for significant degradation of components in the reactor and steam systems as a result of acoustic resonance in the active steam lines. Otherwise, the plant must be placed in cold shutdown. The applicant is also requested to propose a new standard departure from the ABWR DCD, including the generic TS bases, to accompany this change.

Enclosure