

July 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. 158 RELATED TO
SRP SECTION 3.12 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. However, STP requested **45** days to respond to RAI 3019. The Phase 2 schedule will be adjusted accordingly. 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 or you may contact George Wunder at 301-415-1494 or 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. 2812 and 3019

Enclosure:
Request for Additional Information

cc: William Mookhoek
John Price

S. Head

-2-

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cc: William Mookhoek
John Price

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NRO-002

OFFICE	EMB2/TR	EMB2/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	KHsu/CNg	JDHerrity	TTai	SKirkwood	GWunder
DATE	5/01/09	5/01/09	7/21/09	6/26/09	6/26/09

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

OFFICIAL RECORD COPY

Request for Additional Information No. 2812 Revision 2

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

**SRP Section: 03.12 - ASME Code Class 1, 2, and 3 Piping Systems and Piping Components and
Their Associated Supports**

Application Section: 3.9

QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

03.12-1

ABWR DCD Section 3.8.5.4 states that settlement of the foundations, and differential settlement between foundations for the site-specific foundations medium, will be calculated, and safety-related systems (i.e., piping, conduit, etc.) will be designed for the calculated settlement of the foundations.

The staff is requesting the applicant to provide descriptions of designing safety related piping systems for the calculated site-specific settlement of the foundations. The descriptions should be updated in the FSAR to address pipe stress design criteria, pipe support load combination for site-specific settlements in piping systems.

Enclosure

Request for Additional Information No. 3019 Revision 2

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

**SRP Section: 03.12 - ASME Code Class 1, 2, and 3 Piping Systems and Piping Components and
Their Associated Supports**

Application Section: 3.9

QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

03.12-2

In STP COL FSAR Section 3.9.7.4, Audit of Design Specification and Design Reports, the applicant stated that the design specification and design reports required by ASME Code for vessels, pumps, valves, and piping systems for the purpose of audit will be made available for NRC review (COL License Information Item 3.30). In particular, for piping systems, ITAAC Item No. 1 in the reference ABWR DCD Tier 1 Section 3.3 indicated that an ASME Code Certified Stress Report exists for the piping system and concludes that the design complies with the requirements of ASME Code, Section III. The staff recognizes that piping DAC was used in the ABWR design. According to RG1.206, Section C.III.5.1, the applicant should supply the NRC with a schedule for completion of detailed engineering, procurement, fabrication, and installation information in a manner to support timely NRC inspection of DAC information. The current COL FSAR information as described above does not make it clear when the applicant will have the design reports available for NRC review. If the information cannot be provided prior the issuance of the license, the applicant needs to meet RG. 1.206 Section C.III.5.1 and provide a description pertaining to the closure schedule of the piping design that will allow the coordination of activities with the NRC construction inspection program following issuance of the COL.

The applicant is requested to address the review schedule for piping DAC.