

July 16, 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. 153 RELATED TO
SRP SECTION 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 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. 2522 and 2780

Enclosure:
Request for Additional Information

cc: William Mookhoek
James Agles

S. Head

-2-

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

OFFICIAL RECORD COPY

Request for Additional Information No. 2522 Revision 2
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 01 - Introduction and Interfaces
Application Section: 9.3.9

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

01-10

In conference calls with the applicant on March 24, 2009 and April 1, 2009, the staff discussed the potential use of Hydrogen Water Chemistry (HWC) system to reduce intergranular stress corrosion cracking (IGSCC) of reactor internals. The staff requests the applicant to confirm a HWC system will be utilized.

Request for Additional Information No. 2780 Revision 2
South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 01 - Introduction and Interfaces
Application Section: 9.3.11

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

01-11

In ABWR DCD, Provisions are made to permit the installation of a system for adding a zinc solution to the feedwater. In the South Texas COL FSAR section 9.3, the applicant incorporated by reference section 9.3 of the ABWR DCD. But it is not clear whether or not the Zinc Injection System will be utilized. Therefore the staff requests a clarification from the applicant to confirm whether or not the Zinc Injection System will be utilized.