

March 4, 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. 79 RELATED TO
SRP SECTION 04.05.02 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 301-415-6197 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. 2051, 2052 and 2084

Enclosure:
Request for Additional Information

cc:
William Mookhoek
Richard Bense

S. Head

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NRO-002

OFFICE	CIB2/TR	CIB2/BC	NGE2/PM	OGC	NGE2/L-PM
NAME	SDowney	NRay	TGovan	SBrock	GWunder
DATE	01/28/2009	02/06/2009	3/4/2009	02/13/2009	02/13/2009

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

OFFICIAL RECORD COPY

Request for Additional Information No. **2051** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.

Docket Nos. 52-012 and 52-013

SRP Section: 04.05.02 - Reactor Internal and Core Support Structure Materials

Application Section: 04.05.02

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

04.05.02-1

In FSAR Section 4.5.2.1, the alloy ASME SA-336/336M Grade F316L is listed for use in "Forgings" under the subheading entitled "Materials Employed in Shroud head and Separator Assembly and Steam Dryer Assembly". However, there is no F316L Grade of SA-336/336M listed in the ASME Code (Section II, Part A, SA-336/336M). Please revise the FSAR accordingly.

Enclosure

Request for Additional Information No. **2052** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co.
Docket Nos. 52-012 and 52-013

SRP Section: 04.05.02 - Reactor Internal and Core Support Structure Materials
Application Section: 04.05.02

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

04.05.02-2

In FSAR Section 4.5.2.1, the alloy ASME SA-403/403M Grade WP316L is listed for use in "Tube" under the subheading entitled "Materials Employed in Shroud head and Separator Assembly and Steam Dryer Assembly". This alloy grade is not listed in Table 2A, 2B, or 4 of Section II, Part D, Subpart 1 of the ASME Code and therefore does not satisfy the requirements of NG-2120 of Section III, Division 1 of the Code. Please revise the FSAR accordingly.

Request for Additional Information No. **2084** Revision 0

South Texas Project Units 3 and 4
South Texas Project Nuclear Operating Co
Docket No. 52-012 and 52-013
SRP Section: 04.05.02 - Reactor Internal and Core Support Structure Materials
Application Section: 04.05.02

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

04.05.02-3

In FSAR Section 4.5.2.1, Niobium modified Nickel-Chromium-Iron Alloy 600 is listed for use in "Shroud Support" under the subheading entitled "Materials Used for Core Support Structure". The FSAR states that the basis for use of this alloy is per Code Case No. N-580-2, however, this Code Case has not been approved by the NRC. Please justify the use of this Code Case.