

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. 318 RELATED TO
SRP SECTION 2.3 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

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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. 4186 and 4187

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Bense

S. Head

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NRO-002

OFFICE	RSAC	RSAC	NGE2/PM	NGE2/L-PM
NAME	BHarvey	JLee	TGovan	GWunder
DATE	12/21/2010	2/1/2010	2/1/2010	2/1/2010

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

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Request for Additional Information No. 4186 Revision 3

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

**SRP Section: 02.03.05 - Long-Term Atmospheric Dispersion Estimates for Routine
Releases**

Application Section: FSAR 2.3S.5

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.05-12

The third bullet in Revision 3 to FSAR Section 2.3S.5.2 states that the maximum annual average no decay CHI/Q value for the EAB is $8.1\text{E-}06 \text{ sec/m}^3$ in the NW sector at a distance of 0.69 miles. This appears to conflict with the information presented in Revision 3 to FSAR Table 2.3S-27 which shows the maximum no decay CHI/Q value for the EAB is $1.5\text{E-}05 \text{ sec/m}^3$ in the NW sector at a distance of 0.52 miles. Please revise the FSAR to address this apparent conflict.

Enclosure

Request for Additional Information No. 4187 Revision 3

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

**SRP Section: 02.03.04 - Short Term Atmospheric Dispersion Estimates for Accident
Releases**

Application Section: FSAR Sections 2.0 and 2.3S.4

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.04-11

The response to RAI 02.03.04-9 dated October 29, 2009 states, in part, that Footnote 10 will be added to FSAR Table 2.0-2 stating that:

1.62×10^{-4} s/m³ is the PAVAN generated Maximum 2-hour 5.0% value at the EAB; 2.74×10^{-4} s/m³ is the PAVAN generated Maximum 2-hour 0.5% value at the EAB.

Please clarify in Footnote 10 that 1.62×10^{-4} s/m³ is the PAVAN generated 2-hour 5.0% overall site value at the EAB and 2.74×10^{-4} s/m³ is the PAVAN generated 2-hour 0.5% maximum sector value at the EAB.

The response to RAI 02.03.04-9 also states, in part, that Footnote 11 will be added to FSAR Table 2.0-2 stating that:

3.99×10^{-5} s/m³ is the PAVAN generated Maximum 2-hour 5.0% value at the LPZ; 5.27×10^{-5} s/m³ is the PAVAN generated Maximum 2-hour 0.5% value at the LPZ.

Likewise, please clarify in Footnote 11 that 3.99×10^{-5} s/m³ is the PAVAN generated 2-hour 5.0% overall site value at the LPZ and 5.27×10^{-5} s/m³ is the PAVAN generated 2-hour 0.5% maximum sector value at the LPZ.