

October 7, 2008

Mr. Scott Head, Manager
Regulatory Affairs
STP Nuclear Operating Company
P. O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 64 RELATED TO
THE SRP SECTION 2.3.5 FOR THE SOUTH TEXAS COMBINED LICENSE
APPLICATION

Dear Mr. Head:

By letter dated September 20, 2007, STP Nuclear Operating Company (STPNOC) 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 45 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.

Mr. Scott Head

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If you have any questions or comments concerning this matter, you may contact me at 301-415-1146 or Raj.Anand@nrc.gov, or you may contact George Wunder at 301-415-1494 or George.Wunder@nrc.gov.

Sincerely,

/RA/

Raj Anand, Project Manager
ESBWR/ABWR Projects Branch 2
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013
eRAI Tracking No: 1347

Enclosure:
Request for Additional Information

cc: William Mookhoek

Mr. Scott Head

-2-

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NRO-002

OFFICE	RSAC/TR	RSAC/BC	NGE2/PM	OGC	NGE1/L-PM
NAME	BHarvey*	CCox*	RAnand*	SBrock*	GWunder*
DATE	9/25/08	9/25/08	10/7/08	9/26/08	10/02/08

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information No. 1347

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

02.03.05-6

This question is related to the applicant's response to RAI 02.03.05-1. The staff finds the response to RAI 02.03.05-1 incomplete.

Expand the proposed FSAR discussion on the impact of the main cooling reservoir on routine release atmospheric dispersion estimates to include the impact of reduced surface roughness resulting from over-water trajectories.

02.03.05-7

This question is related to the applicant's response to RAI 02.03.05-5.

Revise the FSAR to state that the no decay and 2.26 day decay X/Q values presented in Table 2.3S-27 assume no dry deposition and the 8 day decay X/Q values presented in the same table assume dry deposition.

Enclosure