

April 9, 2010

Mr. Joseph A. (Buzz) Miller  
Executive Vice President  
Southern Nuclear Operating Company  
P.O. Box 1295  
Birmingham, AL 35201

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 054 RELATED TO SRP SECTION 19.0 RELATED TO LOSS OF LARGE AREAS OF THE PLANT DUE TO EXPLOSTIONS OR FIRE-MITIGATIVE STRATEGIES DESCRIPTION AND PLANS FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION

Dear Mr. Miller:

By letter dated March 28, 2008, Southern Nuclear Operating Company (SNC), submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advance passive pressurized water reactors pursuant to 10 CFR Part 52. The 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 final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

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If you have any questions or comments concerning this matter, you may contact me at 301-415-6582 or you may contact Ravi Joshi, the lead project manager for the Vogtle Electric Generating Plant combined license at 301-415-6191.

Sincerely,

**/RA/**

Brian Hughes, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-025  
52-026

Enclosure:  
Request for Additional Information

CC: see next page

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If you have any questions or comments concerning this matter, you may contact me at 301-415-6582 or you may contact Ravi Joshi, the lead project manager for the Vogtle Electric Generating Plant combined license at 301-415-3637.

Sincerely,

**/RA/**

Brian Hughes, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-025  
52-026

eRAI Tracking No. 4543

Enclosure:  
Request for Additional Information

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