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**MAY 28 2010**

Docket Nos.: 52-025  
52-026

ND-10-1104

U.S. Nuclear Regulatory Commission  
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Washington, DC 20555-0001

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Units 3 and 4 Combined License Application  
Response to Request for Additional Information Letter No. 052, Supplement 1  
Loss of Large Areas of the Plant Due to Explosions or Fire - Mitigative Strategies Description

Ladies and Gentlemen:

By letter dated March 28, 2008, Southern Nuclear Operating Company (SNC) submitted an application for combined licenses (COLs) for proposed Vogtle Electric Generating Plant (VEGP) Units 3 and 4 to the U.S. Nuclear Regulatory Commission (NRC) for two Westinghouse AP1000 reactor plants, in accordance with 10 CFR Part 52. SNC subsequently submitted a letter dated May 29, 2009, that identified changes that will be made to a future revision of the VEGP Units 3 and 4 COL application to address NRC requirements in 10 CFR 52.80(d). During their detailed review of this application, the NRC identified a need for additional information required to complete their review of the COL application's Loss of Large Areas of the Plant Mitigative Strategies Plan that was submitted to the NRC by the May 29, 2009 letter. By letter received March 22, 2010, the NRC provided SNC with Request for Additional Information (RAI) letter No. 052 concerning this information need. The response to RAI letter No. 052 was submitted on May 5, 2010, and on May 13, 2010, representatives from SNC discussed the RAI responses with the NRC staff. The enclosure to this letter provides supplemental responses to three RAIs (19-81, 19-91, and 19-93), based on the May 13<sup>th</sup> meeting. For each of these supplemental responses, the original response is provided in its entirety, and the supplemental information is annotated with change bars to facilitate the staff's review.

**The enclosure to this letter contains Security-Related Information, and accordingly SNC requests that this enclosure be withheld from public disclosure under 10 CFR 2.390(d).**

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This letter identifies changes that will be made to a future revision of the VEGP Units 3 and 4 combined license application (COLA) to address NRC requirements in 10 CFR 52.80(d).

If you have any questions regarding this letter, please contact Mr. Wes Sparkman at (205) 992-5061.

Mr. B. L. Ivey states he is a Vice President of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and to the best of his knowledge and belief, the facts set forth in this letter are true.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY



B. L. Ivey

Sworn to and subscribed before me this 28th day of May, 2010

Notary Public: Nancy Louise Henderson

My commission expires: March 23, 2014

BLI/BJJS

Enclosure: Supplemental Response to NRC RAI Letter No. 052 on the VEGP Units 3 & 4 COL Application Involving the Loss of Large Areas of the Plant Due to Explosions or Fire Mitigative Strategies Description



cc: Southern Nuclear Operating Company

Mr. J. H. Miller, III, President and CEO (w/o enclosure)  
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Mr. J. T. Gasser, Executive Vice President, Nuclear Operations (w/o enclosure)  
Mr. D. H. Jones, Site Vice President, Vogtle 3 & 4 (w/o enclosure)  
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Document Services RTYPE: AR01.1053  
File AR.01.02.06

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