Southern Nuclear
Operating Company, Inc.
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MAY 05 2010

SOUTHERN COMPANY

Docket Nos.: 52-025
52-026

ND-10-0854

U.S. Nuclear Regulatory Commission
Document Control Desk
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
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. This RAI letter contains 14 RAI questions, numbered 19-81 through 19-94. The enclosure to this letter provides the SNC response to these questions.

The NRC's RAI letter No. 052 requested that the responses be provided within 30 days; however, it was subsequently noted that the development of these responses would require significant input from the reactor vendor and that these responses would apply to the other COL applicants that are using the AP1000 design. Accordingly, these questions should be considered "standard" with a corresponding 45-day response timeframe. The NRC staff concurred that a 45-day response timeframe is appropriate for these RAIs.

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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NRO

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. C. R. Pierce states he is the AP1000 Licensing Manager 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

Charles R. Pierce

Charles R. Pierce

Sworn to and subscribed before me this 5th *day of* May, 2010

Notary Public: Dana M. Williams

My commission expires: 12/29/2010

CRP/BJS/dmw

Enclosure: 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
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File AR.01.02.06

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