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Docket Nos.: 52-025
52-026

AR-08-1731

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. 009

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. During the NRC's detailed review of this application, the NRC identified a need for additional turbine building closed cooling water information required to complete their review of the COL application's Final Safety Analysis Report (FSAR) Subsection 9.2.8, "Turbine Building Closed Cooling Water System." By letter dated November 4, 2008, the NRC provided SNC with Request for Additional Information (RAI) Letter No. 009 concerning this turbine building closed cooling water information need. This RAI letter contains one RAI question numbered 09.02.02-1. The enclosure to this letter provides the SNC response to this RAI.

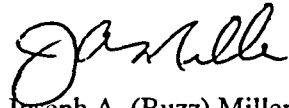
If you have any questions regarding this letter, please contact Mr. Wes Sparkman at (205) 992-5061.

DO92
NRO

Mr. J. A. (Buzz) Miller states he is a Senior 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,

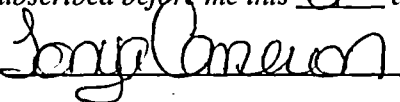
SOUTHERN NUCLEAR OPERATING COMPANY



Joseph A. (Buzz) Miller

Sworn to and subscribed before me this 2 day of December, 2008

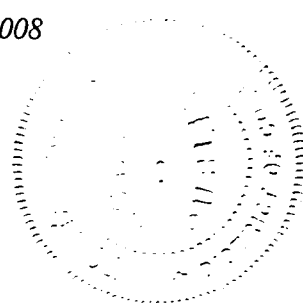
Notary Public:



My commission expires: **My Commission Expires**
August 14, 2012

JAM/BJS/lac

Enclosure: Response to NRC RAI Letter No. 009 on the VEGP Units 3 & 4 COL Application
Involving Turbine Building Closed Cooling Water



cc: Southern Nuclear Operating Company

Mr. J. H. Miller, III, President and CEO (w/o enclosure)
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations (w/o enclosure)
Mr. T. E. Tynan, Vice President - Vogtle (w/o enclosure)
Mr. D. M. Lloyd, Vogtle Deployment Director
Mr. C. R. Pierce, Vogtle Development Licensing Manager
Mr. M. J. Ajluni, Nuclear Licensing Manager
Mr. W. A. Sparkman, COL Project Engineer
Document Services RTYPE: AR01.1053
File AR.01.02.06

Nuclear Regulatory Commission

Mr. L. A. Reyes, Region II Administrator (w/o enclosure)
Mr. M. R. Johnson, Director of Office of New Reactors (w/o enclosure)
Mr. D. B. Matthews, Director of Division of New Reactor Licensing (w/o enclosure)
Ms. S. M. Coffin, AP1000 Manager of New Reactors (w/o enclosure)
Mr. C. J. Araguas, Lead Project Manager of New Reactors
Mr. B. Hughes, Project Manager of New Reactors
Mr. R. G. Joshi, Project Manager of New Reactors
Ms. T. E. Simms, Project Manager of New Reactors
Mr. B. C. Anderson, Project Manager of New Reactors
Mr. M. M. Comar, Project Manager of New Reactors
Mr. S. C. Flanders, Director of Site and Environmental Reviews
Mr. W.F. Burton, Chief – Environmental Technical Support
Mr. M. D. Notich, Environmental Project Manager
Mr. J. H. Fringer, III, Environmental Project Manager
Mr. G. J. McCoy, Senior Resident Inspector of VEGP

Georgia Power Company

Mr. O. C. Harper, IV, Vice President, Resource Planning and Nuclear Development (w/o enclosure)

Oglethorpe Power Corporation

Mr. M. W. Price, Chief Operating Officer (w/o enclosure)

Municipal Electric Authority of Georgia

Mr. C. B. Manning, Jr., Senior Vice President, Participant and Corporate Affairs (w/o enclosure)

Dalton Utilities

Mr. D. Cope, President and Chief Executive Officer (w/o enclosure)

Bechtel Power Corporation

Mr. J. S. Prebula, Project Engineer (w/o enclosure)
Mr. R. W. Prunty, Licensing Engineer

Tetra Tech NUS, Inc.

Ms. K. K. Patterson, Project Manager

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Shaw Stone & Webster, Inc.

Mr. K. B. Allison, Project Manager (w/o enclosure)

Mr. J. M. Oddo, Licensing Manager

Westinghouse Electric Company, LLC

Mr. N. C. Boyter, Vice President, AP1000 Vogtle 3 & 4 Project (w/o enclosure)

Mr. J. L. Whiteman, Principal Engineer, Licensing & Customer Interface

Southern Nuclear Operating Company

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Enclosure

Response to NRC RAI Letter No. 009

on the VEGP Units 3 & 4 COL Application

Involving Turbine Building Closed Cooling Water

FSAR Subsection 9.2.8, Turbine Building Closed Cooling Water System

eRAI Tracking No. 1242

NRC RAI Number 09.02.02-1:

FSAR Section 9.2.8.2.3, "Startup," was revised to eliminate the provision that the circulating water system (CWS) be placed in operation prior to placing the turbine building closed cooling water system (TCS) in operation. This is an apparent departure from the description that was provided for the standard plant, but it was not recognized and evaluated as such in the Vogtle COL application. Therefore, the FSAR needs to be revised to properly recognize and evaluate this change to Tier 2 of the DCD, Section 9.2.8.2.3

SNC Response:

The FSAR will be updated in the next revision of the COLA to include the DCD bracketed information for the turbine building closed cooling water system startup as shown below:

Associated VEGP COL Application Revisions:

COLA Part 2, FSAR Chapter 9, Section 9.2.8.2.3, under "Startup," will be revised as follows:

VEGP CDI

The turbine building closed cooling water system is placed in operation during the plant startup sequence after the circulating water system is in operation but prior to the operation of systems that require turbine building closed cooling water flow. The system is filled by the demineralized water transfer and storage system through a fill line to the surge tank. The system is placed in operation by starting one of the pumps.