

**Southern Nuclear  
Operating Company, Inc.**  
40 Inverness Center Parkway  
Birmingham, Alabama 35242

**APR 17 2009**



Docket Nos.: 52-025  
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ND-09-0361  
10 CFR 50.46

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  
10 CFR 50.46 Annual Report

Ladies and Gentlemen:

The purpose of this letter is to provide a required report in accordance with 10 CFR 50.46, "Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors" for the combined license (COL) application submitted for Vogtle Electric Generating Plant (VEGP) Units 3 and 4.

On February 13, 2009, Westinghouse Electric Company, LLC (WEC) submitted to the NRC an updated analysis in their annual report required by 10 CFR 50.46 (letter DCP/NRC2373, "10 CFR 50.46 Annual Report for the AP1000 Standard Plant Design"). Enclosure 1 of the WEC letter contains the updated analysis required by 10 CFR 50.46. Southern Nuclear Operating Company's (SNC's) COL application for proposed VEGP Units 3 and 4 incorporates by reference the AP1000 design control document (DCD), and thus, utilizes the peak cladding temperature calculations performed by WEC. Therefore, the WEC report is also applicable to the VEGP Units 3 and 4 COL Application.

If there are any questions regarding this report, please contact Mr. Wes Sparkman at (205) 992-5061.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

A handwritten signature in black ink that reads "Charles R. Pierce". The signature is written in a cursive, flowing style.

Charles R. Pierce  
Vogtle Deployment Licensing Manager

CRP/GAB/dmw

DO92  
NRC

cc: Southern Nuclear Operating Company

Mr. J. H. Miller, III, President and CEO  
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations  
Mr. J. A. Miller, Executive Vice President, Nuclear Development  
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Mr. D. M. Lloyd, Vogtle Deployment Director  
Mr. M. J. Ajluni, Nuclear Licensing Manager  
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Mr. L. A. Reyes, Region II Administrator  
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Mr. R. G. Joshi, Project Manager of New Reactors  
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Mr. B. C. Anderson, Project Manager of New Reactors  
Mr. M. M. Comar, Project Manager of New Reactors  
Mr. M. D. Notich, Environmental Project Manager  
Mr. J. H. Fringer, III, Environmental Project Manager  
Mr. L. M. Cain, Senior Resident Inspector of VEGP

Georgia Power Company

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Mr. N. C. Boyter, Vice President, AP1000 Vogtle 3 & 4 Project  
Mr. J. L. Whiteman, Principal Engineer, Licensing & Customer Interface