

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



JUL 29 2010

Docket Nos.: 52-025
52-026

ND-10-1422
10 CFR 50.46

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
10 CFR 50.46 Thirty Day Report

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. The purpose of this letter is to provide a required 30-day report in accordance with 10 CFR 50.46(a)(3)(ii), for the COL application submitted for VEGP Units 3 and 4.

Pursuant to 10 CFR 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear power reactors," Westinghouse Electric Company (WEC) submitted a report (letter number DCP/NRC2943, dated June 30, 2010) to document an emergency core cooling system evaluation model error that affects the temperature calculation for the AP1000 Standard Plant Design. A 30-day report is required if the peak clad temperature error assessed is greater than 50°F. The WEC letter transmitted 10 CFR 50.46 reporting information for errors discovered in the AP1000 Design Control Document (DCD) small-break loss of coolant accident (LOCA) analysis-of-record for the LOCA 10-inch Transient Adiabatic Heat-up Calculation. Details of the error and WEC actions to correct the error were provided in the above referenced WEC letter.

SNC's COL application for proposed VEGP Units 3 and 4 incorporates by reference the AP1000 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.

DO92
NRC

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

A handwritten signature in black ink, appearing to read "C. R. Pierce". The signature is written in a cursive style with a large, looping initial "C".

C. R. Pierce
AP1000 Licensing Manager

CRP/BJS

cc: Southern Nuclear Operating Company

Mr. J. H. Miller, III, President and CEO
Mr. J. A. Miller, Executive Vice President, Nuclear Development
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations
Mr. B. L. Ivey, Vice President, Nuclear Development Support
Mr. D. H. Jones, Site Vice President, Vogtle 3 & 4
Mr. T. E. Tynan, Vice President - Vogtle
Mr. M. K. Smith, Technical Support Director
Mr. D. M. Lloyd, Vogtle 3 & 4 Project Support Director
Mr. M. J. Ajluni, Nuclear Licensing Manager
Mr. T. C. Moorner, Manager, Environmental Affairs, Chemistry and Rad. Services
Mr. J. D. Williams, Vogtle 3 & 4 Site Support Manager
Mr. J. T. Davis, Vogtle 3 & 4 Site Licensing Manager
Mr. W. A. Sparkman, COL Project Engineer
Ms. A. G. Aughtman, AP1000 Licensing Project Engineer
Document Services RTYPE: AR01.1053
File AR.01.02.06

Nuclear Regulatory Commission

Mr. L. A. Reyes, Region II Administrator
Mr. F. M. Akstulewicz, Deputy Director Div. of Safety Systems & Risk Assessment
Mr. R. G. Joshi, Lead 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
Ms. S. Goetz, Project Manager of New Reactors
Mr. J. M. Sebrosky, Project Manager of New Reactors
Mr. D. C. Habib, Project Manager of New Reactors
Ms. D. L. McGovern, Project Manager of New Reactors
Ms. T. L. Spicher, Project Manager of New Reactors
Ms. M. A. Sutton, Environmental Project Manager
Mr. M. D. Notich, Environmental Project Manager
Mr. L. M. Cain, Senior Resident Inspector of VEGP 1 & 2
Mr. J. D. Fuller, Senior Resident Inspector of VEGP 3 & 4

Georgia Power Company

Mr. T. W. Yelverton, Nuclear Development Director
Ms. A. N. Faulk, Nuclear Regulatory Affairs Manager

Oglethorpe Power Corporation

Mr. M. W. Price, Executive Vice President and Chief Operating Officer
Mr. K. T. Haynes, Director of Contracts and Regulatory Oversight

Municipal Electric Authority of Georgia

Mr. J. E. Fuller, Senior Vice President, Chief Financial Officer
Mr. S. M. Jackson, Vice President, Power Supply

Dalton Utilities

Mr. D. Cope, President and Chief Executive Officer

Bechtel Power Corporation

Mr. J. S. Prebula, Project Engineer
Mr. R. W. Prunty, Licensing Engineer

Tetra Tech NUS, Inc.

Ms. K. K. Patterson, Project Manager

Shaw Stone & Webster, Inc.

Mr. C. A. Fonseca, Vogtle Project Manager
Mr. J. M. Oddo, Licensing Manager
Mr. D. C. Shutt, Licensing Engineer

Westinghouse Electric Company, LLC

Mr. S. D. Rupprecht, Vice President of Regulatory Affairs & Strategy
Mr. N. C. Boyter, Consortium Project Director Vogtle Units 3 & 4
Mr. S. A. Bradley, Vogtle Project Licensing Manager
Mr. M. A. Melton, Manager, Regulatory Interfaces
Mr. R. B. Sisk, Manager, AP1000 Licensing and Customer Interface
Mr. D. A. Lindgren, Principal Engineer, AP1000 Licensing and Customer Interface

NuStart Energy

Mr. R. J. Grumbir
Mr. E. R. Grant
Mr. P. S. Hastings
Mr. B. Hirmanpour
Mr. N. Haggerty
Ms. K. N. Slays

Other NuStart Energy Associates

Ms. M. C. Kray, NuStart
Mr. S. P. Frantz, Morgan Lewis
Mr. J. A. Bailey, TVA
Ms. A. L. Sterdis, TVA
Mr. J. P. Berger, EDF
Mr. W. Maher, FP&L
Mr. P. Hinnenkamp, Entergy
Mr. G. D. Miller, PG&N
Mr. N. T. Simms, Duke Energy
Mr. G. A. Zinke, NuStart & Entergy
Mr. R. H. Kitchen, PGN
Ms. A. M. Monroe, SCE&G
Mr. T. Beville, DOE/PM