

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



OCT 08 2010

Docket Nos.: 52-025
52-026

ND-10-1897

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. 054, Supplement 2
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 combined license application (COLA) 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 COLA's Loss of Large Areas of the Plant Mitigative Strategies Description that was submitted to the NRC by the May 29, 2009 letter. By letter dated April 9, 2010, the NRC provided SNC with Request for Additional Information (RAI) letter No. 054 concerning this information need. SNC provided a response to the RAI letter in an SNC letter dated May 24, 2010. This letter provides a revised response to the standard RAI 19-102 response provided in the May 24, 2010 letter.

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).

This letter identifies changes that will be made to a future revision of the VEGP Units 3 and 4 COLA.

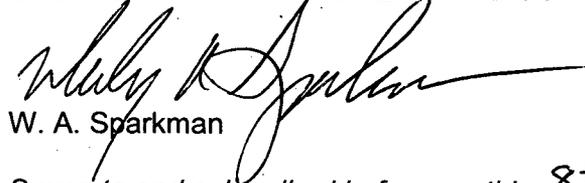
If you have any questions regarding this letter, please contact me at (205) 992-5061.

D092
NRW

Mr. W. A. Sparkman states he is the COL Project Engineer 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



W. A. Sparkman

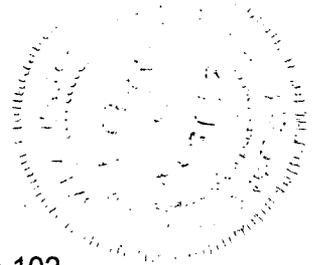
Sworn to and subscribed before me this 8th day of October, 2010

Notary Public: Dana Marie Williams

My commission expires: 12/29/2010

WAS/BJS/dmw

Enclosure: Revised Response to R-COLA RAI Letter No. 054, RAI No. 19-102
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)
Mr. J. A. Miller, Executive Vice President, Nuclear Development (w/o enclosure)
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations (w/o enclosure)
Mr. B. L. Ivey, Vice President, Nuclear Development Support (w/o enclosure)
Mr. D. H. Jones, Site Vice President, Vogtle 3 & 4 (w/o enclosure)
Mr. T. E. Tynan, Vice President - Vogtle (w/o enclosure)
Mr. M. K. Smith, Technical Support Director (w/o enclosure)
Mr. D. M. Lloyd, Vogtle 3 & 4 Project Support Director (w/o enclosure)
Mr. C. R. Pierce, AP1000 Licensing Manager (w/o enclosure)
Mr. M. J. Ajluni, Nuclear Licensing Manager (w/o enclosure)
Mr. T. C. Moorer, Manager, Environmental Affairs, Chemistry and Rad. Services (w/o encl.)
Mr. J. D. Williams, Vogtle 3 & 4 Site Support Manager (w/o enclosure)
Mr. J. T. Davis, Vogtle 3 & 4 Site Licensing Supervisor (w/o enclosure)
Ms. A. G. Aughtman, Lead AP1000 Licensing Project Engineer (w/o enclosure)
Document Services RTYPE: COR0507-03
File AR.01.02.06

Nuclear Regulatory Commission

Mr. L. A. Reyes, Region II Administrator (w/o enclosure)
Mr. F. M. Akstulewicz, Deputy Director Div. of Safety Systems & Risk Assess. (w/o encl.)
Mr. R. G. Joshi, Lead Project Manager of New Reactors (w/o enclosure)
Ms. T. E. Simms, Project Manager of New Reactors (w/o enclosure)
Mr. B. C. Anderson, Project Manager of New Reactors (w/o enclosure)
Mr. M. M. Comar, Project Manager of New Reactors (w/o enclosure)
Ms. S. Goetz, Project Manager of New Reactors (w/o enclosure)
Mr. J. M. Sebrosky, Project Manager of New Reactors (w/o enclosure)
Mr. D. C. Habib, Project Manager of New Reactors (w/o enclosure)
Ms. D. L. McGovern, Project Manager of New Reactors (w/o enclosure)
Ms. T. L. Spicher, Project Manager of New Reactors (w/o enclosure)
Ms. M. A. Sutton, Environmental Project Manager (w/o enclosure)
Mr. M. D. Notich, Environmental Project Manager (w/o enclosure)
Mr. L. M. Cain, Senior Resident Inspector of VEGP 1 & 2 (w/o enclosure)
Mr. J. D. Fuller, Senior Resident Inspector of VEGP 3 & 4 (w/o enclosure)

Georgia Power Company

Mr. T. W. Yelverton, Nuclear Development Director (w/o enclosure)
Ms. A. N. Faulk, Nuclear Regulatory Affairs Manager (w/o enclosure)

Oglethorpe Power Corporation

Mr. M. W. Price, Executive Vice President and Chief Operating Officer (w/o enclosure)
Mr. K. T. Haynes, Director of Contracts and Regulatory Oversight (w/o enclosure)

Municipal Electric Authority of Georgia

Mr. J. E. Fuller, Senior Vice President, Chief Financial Officer (w/o enclosure)
Mr. S. M. Jackson, Vice President, Power Supply (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 (w/o enclosure)

Tetra Tech NUS, Inc.

Ms. K. K. Patterson, Project Manager (w/o enclosure)

Shaw Stone & Webster, Inc.

Mr. C. A. Fonseca, Vogtle Project Manager (w/o enclosure)
Mr. J. M. Oddo, Licensing Manager (w/o enclosure)
Mr. D. C. Shutt, Licensing Engineer (w/o enclosure)

Westinghouse Electric Company, LLC

Mr. S. D. Rupprecht, Vice President of Regulatory Affairs & Strategy (w/o enclosure)
Mr. R. J. Buechel, Consortium Project Director Vogtle Units 3 & 4 (w/o enclosure)
Mr. S. A. Bradley, Vogtle Project Licensing Manager (w/o enclosure)
Mr. M. A. Melton, Manager, Regulatory Interfaces (w/o enclosure)
Mr. R. B. Sisk, Manager, AP1000 Licensing and Customer Interface (w/o enclosure)
Mr. D. A. Lindgren, Principal Engineer, AP1000 Licensing and Customer Interface (w/o enclosure)

NuStart Energy

Mr. R. J. Grumbir (w/o enclosure)
Mr. E. R. Grant (w/o enclosure)
Mr. P. S. Hastings (w/o enclosure)
Mr. B. Hirmanpour (w/o enclosure)
Mr. N. Haggerty (w/o enclosure)
Ms. K. N. Slays (w/o enclosure)

Other NuStart Energy Associates

Ms. M. C. Kray, NuStart (w/o enclosure)
Mr. S. P. Frantz, Morgan Lewis (w/o enclosure)
Mr. J. A. Bailey, TVA (w/o enclosure)
Ms. A. L. Sterdis, TVA (w/o enclosure)
Mr. M. Vidard, EDF (w/o enclosure)
Mr. W. Maher, FP&L (w/o enclosure)
Mr. K. Hughey, Entergy (w/o enclosure)
Mr. N. T. Simms, Duke Energy (w/o enclosure)
Mr. G. A. Zinke, NuStart & Entergy (w/o enclosure)
Mr. R. H. Kitchen, PGN (w/o enclosure)
Ms. A. M. Monroe, SCE&G (w/o enclosure)
Mr. T. Miller, DOE/PM (w/o enclosure)