

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



JUN 04 2010

Docket Nos.: 52-025  
52-026

ND-10-1118

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  
Voluntary Letter Addressing Additional Information for Chapter 07

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. As a result of the NRC's detailed review of the initial AP1000 Reference COL application (R-COLA) (i.e., Bellefonte Units 3 and 4), the NRC has written a safety evaluation report (SER) with open items for the subject Final Safety Analysis Report (FSAR) chapter.

In the enclosures to this letter, VEGP is addressing the need for additional information resulting from recent proposed revisions to the AP1000 Design Control Document (DCD) as the new Reference COL applicant.

If you have any questions regarding this letter, please contact Mr. Wes Sparkman at (205) 992-5061 or Ms. Amy Aughtman at (205) 992-5805.

D092  
NR0

Mr. Charles R. Pierce states he is the AP1000 Licensing Manager for 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 4<sup>th</sup> day of June, 2010

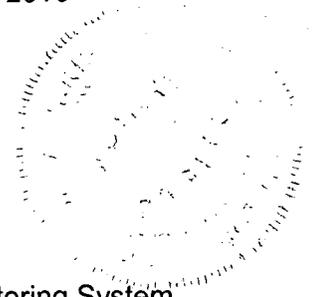
Notary Public: Dana M. Williams

My commission expires: December 29, 2010

CRP/BJS/dmw

Enclosures:

1. Voluntary Revision for R-COLA FSAR Chapter 07 – Post Accident Monitoring System
2. Voluntary Revision for R-COLA FSAR Chapter 07 – Final Setpoints



cc: Southern Nuclear Operating Company

Mr. J. H. Miller, III, President and CEO (w/o enclosures)  
Mr. J. A. Miller, Executive Vice President, Nuclear Development (w/o enclosures)  
Mr. J. T. Gasser, Executive Vice President, Nuclear Operations (w/o enclosures)  
Mr. B. L. Ivey, Vice President, Nuclear Development Support (w/o enclosures)  
Mr. D. H. Jones, Site Vice President, Vogtle 3 & 4 (w/o enclosures)  
Mr. T. E. Tynan, Vice President - Vogtle (w/o enclosures)  
Mr. M. K. Smith, Technical Support Director, Nuclear Development (w/o enclosures)  
Mr. D. M. Lloyd, Vogtle 3 & 4 Project Support Director (w/o enclosures)  
Mr. M. J. Ajluni, Nuclear Licensing Manager  
Mr. T. C. Moorer, 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  
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 Assess. (w/o encls.)  
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 (w/o enclosures)  
Mr. R. W. Prunty, Licensing Engineer

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Ms. K. K. Patterson, Project Manager

Shaw Stone & Webster, Inc.

Mr. C. A. Fonseca, Vogtle Project Manager (w/o enclosures)  
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 (w/o enclosures)  
Mr. N. C. Boyter, Consortium Project Director Vogtle Units 3 & 4 (w/o enclosures)  
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

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Other NuStart Energy Associates

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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

**Southern Nuclear Operating Company**

**ND-10-1118**

**Enclosure 1**

**Voluntary Revision for R-COLA FSAR Chapter 07 -**

**Post Accident Monitoring System**

**eRAI Tracking No. NA**

**NuStart Qb Tracking No. 4100**

**NRC SER OI Number: NA**

In a recent letter (Westinghouse Letter No. DCP\_NRC\_002892, dated May 26, 2010), in response to DCD Open Item OI-SRP7.5-ICE-01, Westinghouse (WEC) proposed to revise the AP1000 Design Control Document (DCD) adding Combined License Information Item 7.5-1 for site specific Post Accident Monitoring variables. These proposed changes to the DCD will impact the Combined License Applications (COLAs) which have referenced that DCD.

**SNC Response:**

Appropriate changes corresponding to the above identified AP1000 DCD proposed revision are identified in the Application Revisions section below. These changes will be included in a future COLA revision following the DCD revision which inserts the above identified DCD revisions.

Note that the site specific information required by new COL Information Item 7.5-1 was previously included in VEGP COLA FSAR Revision 2; thus, the changes shown below are administrative and merely update the R-COLA FSAR to reflect the corresponding COL Information Item.

This response is expected to be STANDARD for the S-COLAs.

**Associated VEGP COL Application Revisions:**

1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the following new line item to address COL Information Item 7.5-1:

COL ITEM	SUBJECT	DCD SUBSECTION	FSAR SECTION(S)	COL APPLICANT (A), HOLDER (H) OR BOTH (B)
7.5-1	Post Accident Monitoring System	7.5.5	7.5.2, 7.5.3.5, 7.5.5	A

2. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-205, will be revised to include the following plant interface item:

Item No.	Interface	Interface Type	Matching Interface Item	Section or Subsection <sup>(1)</sup>
7.4	Post Accident Monitoring System	NNS	7.5.5	A

3. COLA Part 2, FSAR Chapter 7, Section 7.5, will be revised to add Subsection 7.5.5:

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7.5.5 COMBINED LICENSE INFORMATION

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STD COL 7.5-1      This COL item is addressed in Subsections 7.5.2 and 7.5.3.5.

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4. COLA Part 2, FSAR Chapter 7, Section 7.5, LMA will be revised from “VEGP SUP 7.5-1” to “STD COL 7.5-1.”
5. COLA Part 2, FSAR Chapter 7, Section 7.5, LMAs for Tables 7.5-201 and 7.5-202 will be revised from “VEGP SUP 7.5-1” to “VEGP COL 7.5-1.”

**ASSOCIATED ATTACHMENTS/ENCLOSURES:**

None

**Southern Nuclear Operating Company**

**ND-10-1118**

**Enclosure 2**

**Voluntary Revision for R-COLA FSAR Chapter 07 -**

**Final Setpoints**

**eRAI Tracking No. NA**

**NuStart Qb Tracking No. 4101**

**NRC SER OI Number: NA**

In a recent letter (Westinghouse Letter No. DCP\_NRC\_002814, dated March 8, 2010), Westinghouse (WEC) proposed to revise the AP1000 Design Control Document (DCD) to address final setpoint calculations. These proposed changes to the DCD will impact the Combined License Applications (COLAs) which have referenced that DCD.

**SNC Response:**

Appropriate changes corresponding to the above identified AP1000 DCD proposed revision are identified in the Application Revisions section below. These changes will be included in a future COLA revision following the DCD revision which inserts the above identified DCD revisions.

Note that the Technical Specification program identified in new Subsection 7.1.6.1 (below) was addressed in the VEGP supplemental response to COL-SER-OI-Ch16 open item 16.01-01 dated May 21, 2010. The calculation and reconciliation of the setpoints discussed in new Subsection 7.1.6.1 is required by the AP1000 Inspections, Tests, Analyses and Acceptance Criteria (ITAAC) included in AP1000 DCD Tier 1 Table 2.5.2-8, item 10.

This response is expected to be STANDARD for the S-COLAs.

**Associated VEGP COL Application Revisions:**

1. COLA Part 2, FSAR Chapter 1, Section 1.8, Table 1.8-202, will be revised to include the following new line item to address COL Information Item 7.1-1:

COL ITEM	SUBJECT	DCD SUBSECTION	FSAR SECTION(S)	COL APPLICANT (A), HOLDER (H) OR BOTH (B)
7.1-1	Setpoint Calculations for Protective Functions	7.1.6.1	7.1.6.1	B

2. COLA Part 2, FSAR Chapter 7, Section 7.1, will be revised from:

**7.1 INTRODUCTION**

This section of the referenced DCD is incorporated by reference with no departures or supplements.

To read (with an LMA of STD COL 7.1-1 for the new subsection 7.1.6.1):

**7.1 INTRODUCTION**

This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

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7.1.6.1 Setpoint Calculations for Protective Functions

The Setpoint Program described in Technical Specifications Section 5.5 provides the appropriate controls for update of the instrumentation setpoints following completion of the calculation of setpoints for protective functions and the reconciliation of the setpoints against the final design.

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