

**B. L. "Pete" Ivey**  
Vice President  
Nuclear Development Support

**Southern Nuclear  
Operating Company, Inc.**  
42 Inverness Center Parkway  
Post Office Box 1295  
Birmingham, Alabama 35242  
  
Tel 205.992.7619  
Fax 205.992.5217



AUG 27 2010

Docket Nos.: 52-025  
52-026

ND-10-1656

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 Revision to Final Safety Analysis Report Chapter 5

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 is supplementing the COL Application (COLA) Part 2, Final Safety Analysis Report (FSAR), to address a recently identified AP1000 Design Control Document (DCD) revision to a Chapter 5 COL information item regarding augmented in-service inspections of the reactor vessel head welds for instrumentation penetrations.

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.

DO92  
NRD

Mr. B. L. Ivey states he is a 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



B. L. Ivey

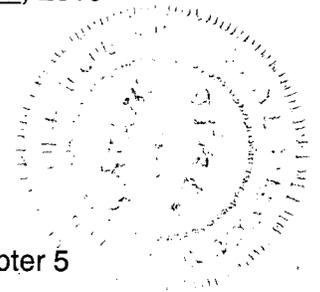
Sworn to and subscribed before me this 27<sup>th</sup> day of August, 2010

Notary Public: Nancy Louise Henderson

My commission expires: March 23, 2014

BLI/BJJS

Enclosure: VEGP Units 3 and 4 COL Application - Revision to FSAR Chapter 5  
Regarding Augmented Inservice Inspection



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. 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  
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 Supervisor  
Mr. W. A. Sparkman, COL Project Engineer  
Ms. A. G. Aughtman, AP1000 Lead Licensing 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 encl.)  
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 enclosure)  
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 (w/o enclosure)  
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 enclosure)  
Mr. R. J. Buechel, Consortium Project Director Vogtle Units 3 & 4 (w/o enclosure)  
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. M. Vidard, EDF  
Mr. W. Maher, FP&L  
Mr. K. Hughey, Entergy  
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. Miller, DOE/PM

**Southern Nuclear Operating Company**

**ND-10-1656**

**Enclosure**

**VEGP Units 3 and 4 COL Application –**

**Revision to FSAR Chapter 5**

**Regarding**

**Augmented Inservice Inspection**

**NuStart Qb Tracking No. 4193**  
**STD COL 05.03-07**

Westinghouse responded to RAI-SRP5.2.3-CIB1-03 Revision 2 (via letter DCP\_NRC\_002996 as submitted August 3, 2010) and included revisions to the DCD to add a new COL Information Item 5.3-7 related to augmented inspection of weld build-up for the Quickloc reactor vessel head instrumentation penetrations.

The VEGP FSAR will be revised as shown in the COL Application Revisions section below to address this new item. These changes will be incorporated in a future revision of the COL application.

This change 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 add new COL item listing to read:

5.3-7	Quickloc Weld Build-up ISI	5.3.6.6	5.2.4.1 5.3.6.6	A
-------	----------------------------	---------	--------------------	---

2. COLA Part 2, FSAR Chapter 5, will be revised to add the following new paragraph at the end of the portion of Subsection 5.2.4.1 with an LMA of STD COL 5.3-7, to read:

The in-service inspection program is augmented to include the performance of a 100 percent volumetric examination of the weld build-up on the reactor vessel head for the instrumentation penetrations (Quickloc) conducted once during each 120-month inspection interval in accordance with the ASME Code, Section XI. The weld build-up acceptance standards are those provided in ASME Code, Section XI, IWB-3514. Personnel performing examinations and the ultrasonic examination systems are qualified in accordance with ASME Code, Section XI, Appendix VIII. Alternatively, an alternative inspection may be developed in conjunction with the voluntary consensus standards bodies (i.e., ASME) and submitted to the NRC for approval.

3. COLA Part 2, FSAR Chapter 5, will be revised to add new Subsection 5.3.6.6 (with an LMA of STD COL 5.3-7) to read:

-----  
5.3.6.6 Quickloc Weld Build-up ISI  
-----

This item is addressed in Subsection 5.2.4.1.  
-----