



March 27, 2008
NND-08-0004

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

ATTN: Document Control Desk

Subject: V. C. Summer Nuclear Station Units 2 and 3
Project No. 743
Submittal of a Combined License Application for V. C. Summer
Nuclear Station Units 2 and 3

In accordance with the requirements contained in 10 CFR Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants", South Carolina Electric & Gas Company (SCE&G), acting for itself and as agent for the South Carolina Public Service Authority (also referred to as Santee Cooper), hereby submits a Combined License Application (COLA) for two Westinghouse AP1000 advanced pressurized water reactor units to be located at the existing V. C. Summer Nuclear Station (VCSNS) site located in Fairfield County, South Carolina. These reactor units are further referred to as VCSNS Units 2 and 3.

This COLA incorporates by reference Appendix D to 10 CFR Part 52, as amended by Westinghouse Electric Company's AP1000 Design Control Document (DCD), Revision 16 which was submitted to the NRC on May 26, 2007, and Westinghouse Technical Report APP-GW-GLR-134, "AP1000 DCD Impacts to Support COLA Standardization," Revision 4, which was submitted on March 20, 2008. This COLA also incorporates the standard errata (through Revision 2) proposed and accepted by the AP1000 Design Centered Working Group (DCWG), which will subsequently be submitted by the AP1000 reference plant.

This COLA utilizes, to the maximum practical extent, the standard content identified in the Final Safety Analysis Report (FSAR) contained in the Tennessee Valley Authority's Bellefonte Units 3 and 4 application. The Bellefonte Units 3 and 4 application was developed by NuStart Energy Development, LLC as the AP1000 reference plant application. While the VCSNS FSAR is the only part of this application that identifies standard and site specific content, other parts of the application contain similar content, formatting and level of detail as the AP1000 reference plant application.

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In accordance with 10 CFR Parts 52.3, 50.30, 52.77, 50.33, 52.79, 52.80, and 51.50, this COLA is comprised of the following parts:

- Part 1 – General and Administrative Information
- Part 2 – Final Safety Analysis Report
- Part 3 – Applicant's Environmental Report—Combined License Stage (Environmental Report)
- Part 4 – Technical Specifications
- Part 5 – Emergency Plan
- Part 6 – [Not used in this COLA. Reserved for applicants requesting a Limited Work Authorization]
- Part 7 – Departures and Exemptions
- Part 8 – Safeguards/Security Plans (provided under separate cover letter)
- Part 9 – Withheld Information
- Part 10 – Proposed License Conditions and ITAAC
- Part 11 – COLA Enclosure 1 – Subsurface Reports
- Part 12 – COLA Enclosure 2 – Seismic Technical Advisory Review Letter
- Part 13 – COLA Enclosure 3 – Quality Assurance Program Description

This COLA contains no Restricted Data or other defense information requiring separation in accordance with 10 CFR 50.33(j). Part 8 of this application contains Safeguards Information and is provided under a separate cover letter. Part 9 of this application contains the information that SCE&G is requesting the NRC to withhold from public disclosure in accordance with the requirements of 10 CFR 2.390. An appropriate affidavit is included as an attachment to this letter.

As part of the development of FSAR Section 2.5, SCE&G initially recognized the need for a high level of technical oversight to ensure that the evaluation processes and results were originated in a consistent manner, using approved methodologies, and in conformance with required regulations. A Seismic Technical Advisory Group (TAG) was assembled to perform these oversight functions; it was composed of the following members: Professor Martin C. Chapman (Virginia Tech University), Professor C. Allin Cornell (deceased) (Stanford University), Dr. Robert P. Kennedy (Consultant), Mr. Donald P. Moore (Consultant, Southern Nuclear Company), and Dr. J. Carl Stepp (Consultant). The VCSNS Seismic TAG functioned as a "Participatory Peer Review Process" group for coordination of seismic generic issues resolution, updating of seismic regulatory guidance, resolution of AP1000 foundation interface issues, and generic coordination with other COLA preparation activities.

The Seismic TAG concluded that the VCSNS Units 2 & 3 COLA properly implemented state of the practice methods and procedures in compliance with NRC's updated seismic regulatory guidance and interim staff guidance, and that the results and conclusions presented in FSAR Section 2.5 are appropriate and adequately supported by the data and analyses. A letter to SCE&G (included in Part 12 of this COLA submittal) reflects their participatory peer review process and conclusions as stated above.

FSAR Section 2.5 also denotes VCSNS as a "hard rock" site with no unusual foundation conditions or seismic demand. As such, generic industry resolution of several issues (seismic response spectra exceedance at high frequencies and adequacy for updating probabilistic seismic hazard analysis models) is applicable to VCSNS for acceptance of this COLA. SCE&G is actively participating in these generic evaluations to reach final and timely resolution in support of this submittal.

Attachment 1 contains an affidavit requesting the information in Part 9 be withheld from public disclosure pursuant to 10 CFR 2.390; Attachment 2 contains the sensitive version of the COLA. Appropriate pre-submission checks have been successfully performed on the files for the disk to ensure compliance with the guidelines provided on the NRC web site and they have been found acceptable for electronic submittal. Preflight exceptions have been reviewed by NRC staff. Attachment 2 includes a "packing slip" describing its contents, pursuant to NRC instructions for electronic filing.

SCE&G requests that this application be reviewed to determine its acceptability for docketing as soon as practical. Please address any correspondence related to this application to Mr. Alfred M. Paglia, Manager, Nuclear Licensing, New Nuclear Deployment, P.O. Box 88, Jenkinsville, S.C. 29065. Should you have any questions, please contact Mr. Paglia at 803-345-4191 or apaglia@scana.com.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 27 day of MARCH 2008



Stephen A. Byrne
Senior Vice President, Generation

JMG/SAB/jg

Attachments: 1) Affidavit of Stephen A. Byrne

2) V.C. Summer Nuclear Station Units 2 and 3 COLA,
Sensitive Version (DVD)

cc (w/ attachments):
File

cc (w/o attachments):
R. William Borchardt
Victor M. McCree
Serita Sanders
Joelle L. Starefos
John Zieler
N. S. Carns
D. L. Ferguson
K. B. Marsh
R. B. Clary
L. N. Carter
B. McCall
K. J. Browne
R. R. Mahan
K. M. Sutton

STATE OF SOUTH CAROLINA)
)
COUNTY OF RICHLAND)

AFFIDAVIT OF STEPHEN A. BYRNE

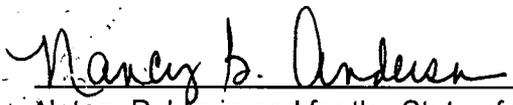
I, Stephen A. Byrne, Senior Vice President, Generation, South Carolina Electric & Gas Company, do hereby affirm and state:

1. I am authorized to execute this affidavit on behalf of South Carolina Electric & Gas Company, (hereinafter referred to as "SCE&G"). I am further authorized to apply for the withholding of information from disclosure.
2. I am making this affidavit in conformance with the provisions of 10 CFR 2.390 and in support of SCE&G's request for proprietary treatment of certain security-sensitive information.
3. The information sought to be withheld from public disclosure is composed of Figures 1.2-201, 9A-201, 12.3-201, 12.3-202 and 12.3-203 located in Part 9 of the Combined License Application for V. C. Summer Nuclear Station Units 2 and 3. The following words have been placed at the top of each figure: "Security-Related Information; Withhold Under 10 CFR 2.390(d)."
4. The figures in Part 9 contain security-sensitive information that identifies details or features of the plant design that could be an aid to a potential adversary and is thus exempted from disclosure in accordance with 10 CFR 2.390(d)(1), and Homeland Security Presidential Directive (HSPD-7) dated December 17, 2003.
5. The information sought to be withheld has been held in confidence by SCE&G; it is not available to the public to the best of my knowledge and belief.
6. The information sought to be withheld is transmitted to the NRC in confidence and under the provisions of 10 CFR 2.390(d).



Stephen A. Byrne
Senior Vice President, Generation

Subscribed and sworn to before me, a Notary Public, in and for the county and state above named, this 27th day of March, 2008



Notary Public in and for the State of South Carolina

My Commission Expires: My Commission Expires June 28, 2009

Document Control Desk
Attachment 2
Page 1 of 1
NND-08-0004

Attachment 2

COLA (Sensitive Version) on DVD

DVD Attached