

July 30, 2009
NND-09-0216



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
Docket Numbers 52-027 and 52-028
Submittal of Revision 1 of the Combined License Application for
V. C. Summer Nuclear Station Units 2 and 3

References:

1. Letter from Stephen A. Byrne (SCE&G) to Document Control Desk (NRC), Submittal of Combined License Application for V.C. Summer Nuclear Station Units 2 and 3, dated March 27, 2008.
2. Letter from Ronald B. Clary (SCE&G) to Document Control Desk (NRC), Endorsement of Standard RAI Content through October 4, 2008, dated May 12, 2009
3. Letter from Ronald B. Clary (SCE&G) to Document Control Desk (NRC), Endorsement of Standard RAI Content from October 4, 2008 through March 31, 2009, dated May 12, 2009

By letter dated March 27, 2008, South Carolina Electric & Gas Company (SCE&G) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) requesting combined licenses (COLs) for two AP1000 advanced passive pressurized water reactors designated V. C. Summer Nuclear Station (VCSNS) Units 2 and 3 to be located at the existing VCSNS site in Fairfield County, South Carolina. The application was submitted in accordance with the requirements contained in 10 CFR Part 52, "Licenses, Certifications and Approvals for Nuclear Power Plants," and the associated material licenses under 10 CFR Parts 30, 40, and 70.

On July 31, 2008, the NRC notified SCE&G of its acceptance and docketing of the VCSNS Units 2 and 3 COL Application and commencement of its detailed technical/environmental review of the application. This update includes the annual update of the docketed Final Safety Analysis Report (FSAR), COL Application Part 2 as required by 10 CFR 50.71(e)(3)(iii). Part 7, titled Departures and Exemptions, is submitted as Revision 1 with this update and also serves as the semi-annual update of the Departures Report as required by X.B.1 and X.B.3.b of Appendix D to 10 CFR Part 52. Additionally, Parts 1, 4, 5, 9, 10 and 13 of the COL Application are also updated in this submittal while Parts 3 and 8 were submitted previously under separate letter. Revisions to the COL Application in this submittal are identified by change bars positioned in the right hand margin.

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This application revision incorporates by reference Appendix D to 10 CFR 52 and the Westinghouse Electric Company's (Westinghouse's) application for amendment to portions of the AP1000 Design Control Document (DCD), Revision 17.

This submittal includes changes identified by SCE&G previous correspondence, including responses to NRC requests for additional information (RAIs), through May 1, 2009, plus additional SCE&G correspondence Letters NND-09-0113, dated May 6, 2009, NND-09-0116, dated May 8, 2009, NND-09-0112, dated May 13, 2009, NND-09-0173, dated June 24, 2009 and NND-09-0177, dated July 2, 2009 for site specific material. Additional updates were made in this submittal as required to incorporate SCE&G endorsed standard RAI responses through March 31, 2009 (References 2 and 3), as well as various other updates such as miscellaneous errata items, standard and site-specific changes necessary to reflect the incorporation by reference of the AP1000 DCD Revision 17. This update also includes changes as necessary to address appropriate standard and site-specific changes to reflect the incorporation by reference of template revisions submitted by the Nuclear Energy Institute (NEI). In addition, this update includes changes related to the Fitness for Duty (FFD) Program, physical security during construction, physical security license conditions, and physical security inspections, tests, analyses and acceptance criteria (ITAAC) as identified in SCE&G correspondence (NND-09-0058) submitted on April 2, 2009. Some standard content has been updated in the VCSNS Units 2 and 3 COL Application through the errata process described in a Tennessee Valley Authority letter to the NRC dated March 14, 2008. These updates were reviewed and concurred with by the AP1000 Design Centered Working Group (DCWG).

This application is composed of thirteen parts. Each of these Parts is identified below along with indication of any revision contained in this document update.

- Part 1 – General and Administrative Information (Revision 1, included)
- Part 2 – Final Safety Analysis Report (Revision 1, included)
- Part 3 – Applicant's Environmental Report–Combined License Stage (Environmental Report) (Revision 1, submitted separately February 13, 2009)
- Part 4 – Technical Specifications (Revision 1, included)
- Part 5 – Emergency Plan (Revision 1, included)
- Part 6 – [Not used in this COLA. Reserved for applicants requesting a Limited Work Authorization]
- Part 7 – Departures and Exemptions (Revision 1, included)
- Part 8 – Safeguards/Security Plans (Revision 1, submitted separately April 2, 2009)
- Part 9 – Withheld Information (Revision 1, included)
- Part 10 – Proposed License Conditions and ITAAC (Revision 1, included)
- Part 11 – COLA Enclosure 1 – Subsurface Reports (Revision 0, not included)
- Part 12 – COLA Enclosure 2 – Seismic Technical Advisory Review Letter (Revision 0, not included)
- Part 13 – COLA Enclosure 3 – Quality Assurance Program Description (Revision 1, included)

Part 1 of this application revision contains a limited amount of proprietary information that was submitted as a response to NRC RAI 01-01 in SCE&G correspondence (NND-09-0007) dated January 15, 2009. This proprietary information has been located in Part 9 while the redacted information is presented in Part 1.

Part 2 has been revised as described above to reflect changes due to site-specific and standard RAI responses, Revision 17 of the AP1000 DCD, NEI Template revisions, FFD, physical security, and miscellaneous errata. There are limited areas in Part 2 that have been revised to incorporate evolving site specific information. Part 2, Chapter 8 has been revised to fully reflect the updated switchyard design as described in response to RAI 08.02-2. Part 2, Chapter 13 has been revised to reflect the appropriate organizational structure; specifically Figure 13.AA-201 has been revised.

Part 3 has been revised and submitted separately by SCE&G Letter NND-09-0023 to the Document Control Desk, dated February 13, 2009.

Part 4 has been revised to incorporate DCD and RAI-related changes and includes revision bars to show where revisions have been made to support NRC review. A final copy (without revision bars) will be prepared and submitted once the NRC review is completed to support the issuance of the COLs.

Part 5 has been revised to incorporate RAI-related changes. The Evacuation Time Estimate (ETE), which is included in Part 5, has been revised to incorporate RAI-related changes, as well as include more descriptive or detailed information where deemed appropriate.

Part 7 of this application revision contains requests for certain exemptions and departures from the referenced DCD. Note that one request for exemption has been withdrawn.

Part 8 of this application revision contains safeguards information and has been provided in a separate submittal on April 2, 2009 under SCE&G Letter NND-09-0070 to the Document Control Desk. Note that the letter submitting Part 8 refers to the revision as proposed Revision 1; however, SCE&G considers this revision to be the final Revision 1.

Part 9 of this application revision contains certain figures that are considered Sensitive Unclassified Non-Safeguards Information (SUNSI). Therefore, SCE&G requests that these figures be withheld from disclosure in accordance with 10 CFR 2.390(d). Part 9 now includes certain financial information that was provided in a response to NRC RAI 01-01. The affidavit for withholding that information was submitted with the RAI response and is considered relevant for this application as well. SCE&G requests that this information be withheld from disclosure in accordance with 10 CFR 2.390(b).

Part 10 of this application revision includes a listing of ITAAC beyond those identified in Tier 1 of the AP1000 DCD, as well as proposed License Conditions.

Parts 11 and 12 of this application were submitted by letter dated March 27, 2008 (Reference 1). Since they did not require revision, they are not included with this submittal.

Part 13 contains the Quality Assurance Program Description (QAPD) for this application revision. This QAPD has been updated to incorporate Revision 6 of the NEI QAPD template, NEI 06-14, and appropriate NRC RAI-related changes.

A document identifying each change, as well as its source or basis, is being provided as an aid to the NRC reviewers and will be submitted by separate letter. This document will clearly identify the basis for each change made in Revision 1 for the Parts specifically included in this submittal.

Consistent with common licensing practice, most of the application text is written in the present tense, active voice, including discussions of facilities and programs not yet built or implemented. Exceptions to this approach are the discussions of operating experience and completed studies and evaluations, which are written in the past tense. It should be understood, however, that statements regarding facilities (e.g., structures, systems and components) and pre-construction, pre-operational, and operational activities (e.g., procedures and programs) typically address activities that have not yet been performed and will not be performed until it is reasonable and appropriate to do so.

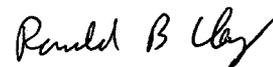
A complete set of application documents (identified above), with the exception of Part 3, Part 8, Part 11, and Part 12 is provided in electronic file format on the enclosed disk. Appropriate pre-submission checks have been successfully performed on the files to ensure compliance with the guidelines provided on the NRC web site and they have been found acceptable for electronic submittal. The disk includes a "packing slip" describing its contents, pursuant to NRC instructions for electronic filing.

Should you have any questions, please contact Mr. Al Paglia by telephone at (803) 345-4191, or by email at apaglia@scana.com.

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

Executed on this 30th day of July, 2009.

Sincerely,



Ronald B. Clary
General Manager
New Nuclear Deployment

JMG/RBC/jg

Enclosure – V.C. Summer Nuclear Station Units 2 and 3 COLA Revision 1,
Sensitive Version (DVD)

c (w/ enclosure):

FileNet
Chandu Patel

c (w/o enclosure):

Luis A. Reyes
John Zeiler
Stephen A. Byrne
Ronald B. Clary
Bill McCall
William M. Cherry
Randolph R. Mahan
Kathryn M. Sutton
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Courtney W. Smyth
John J. DeBlasio
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