



February 7, 2011
NND-11-0041

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

ATTN: Document Control Desk

Subject: Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3 Combined License Application (COLA) - Docket Numbers 52-027 and 52-028 February 7, 2011 Submittal of the Combined License Application for V. C. Summer Nuclear Station Units 2 and 3, Including Revision 4 of the Final Safety Analysis Report (FSAR)

Reference: Letter from Ronald B. Clary (SCE&G) to Document Control Desk (NRC), August 25, 2010 Submittal of the Combined License Application for V.C. Summer Nuclear Station Units 2 and 3, Including Revision 3 of the Final Safety Analysis Report (FSAR)

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 satisfies the requirement for 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 4 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 14 of the COL Application are updated in this submittal. Also, Part 16 is provided in this application as Revision 0. Revisions to the COL Application in this submittal are identified by change bars positioned in the right hand margin.

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 18, submitted December 1, 2010.

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This submittal includes changes identified by SCE&G previous correspondence, including responses to NRC requests for additional information (RAIs), through January 25, 2011 for site specific material. Updates were also made in this submittal as required to incorporate SCE&G endorsed standard RAI and open item responses through January 25, 2011, as well as various other updates such as miscellaneous errata items. This update includes changes as necessary to address appropriate standard and site-specific material to reflect the incorporation by reference of the AP1000 generic DCD Revision 18 as well as template revisions submitted by the Nuclear Energy Institute (NEI).

This application is composed of sixteen 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 4, included)
- Part 2 – Final Safety Analysis Report (Revision 4, included)
- Part 3 – Applicant's Environmental Report–Combined License Stage (Environmental Report) (Revision 2 dated July 2, 2010, not included)
- Part 4 – Technical Specifications (Revision 3, included)
- Part 5 – Emergency Plan (Revision 4, included)
- Part 6 – [Not used in this COLA. Reserved for applicants requesting a Limited Work Authorization]
- Part 7 – Departures and Exemptions (Revision 4, included)
- Part 8 – Safeguards/Security Plans (Revision 2 dated August 24, 2010, not included)
- Part 9 – Withheld Information (Revision 4, included)
- Part 10 – Proposed License Conditions and ITAAC (Revision 4, included)
- Part 11 – COLA Enclosure 1 – Subsurface Reports (Revision 0 dated March 27, 2008, not included)
- Part 12 – COLA Enclosure 2 – Seismic Technical Advisory Review Letter (Revision 0 dated March 27, 2008, not included)
- Part 13 – COLA Enclosure 3 – Quality Assurance Program Description (Revision 2 dated August 25, 2010, not included)
- Part 14 – COLA Enclosure 4 -- Mitigative Strategies Description and Plans (Revision 3, included)
- Part 15 – COLA Enclosure 5 -- Cyber Security Plan (Revision 0 dated August 25, 2010, not included)
- Part 16 – COLA Enclosure 6 -- Special Nuclear Material (SNM) Material Control and Accounting Program Description (Revision 0, 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 and has not changed in this revision. 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 18 of the AP1000 DCD, information to

address Westinghouse changes to the DCD submitted by letter, NEI Template revisions, and miscellaneous errata.

Part 3 has been revised and submitted separately by SCE&G Letter NND-10-0250 to the Document Control Desk, dated July 2, 2010.

Part 4 has been revised to incorporate Revision 18 of the Generic Technical Specifications and Bases for the AP1000.

Part 5 has been revised to incorporate RAI-related changes.

Part 7 of this application revision contains requests for certain exemptions and departures from the referenced DCD.

Part 8 of this application revision contains safeguards information and has been provided in a separate submittal on August 24, 2010 under SCE&G Letter NND-10-0302 to the Document Control Desk.

Part 9 of this application revision contains certain figures that are considered Sensitive Unclassified Non-Safeguards Information (SUNSI). Part 9 also contains two security related documents: Mitigative Strategies Description and Plans, Revision 3, and the VCSNS Cyber Security Plan, Revision 0. Therefore, SCE&G requests that these figures and documents be withheld from disclosure in accordance with 10 CFR 2.390(d). In addition, Part 9 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 has been revised to reflect changes due to site-specific and standard RAI responses, and Revision 18 of the AP1000 DCD. Additionally, 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. Since they did not require revision, they are not included with this submittal.

Part 13 has been revised and submitted separately by SCE&G Letter NND-10-0318 to the Document Control Desk, dated August 25, 2010.

Part 14 has been revised to incorporate RAI-related changes.

Part 15 has been submitted separately by SCE&G Letter NND-10-0318 to the Document Control Desk, dated August 25, 2010.

Part 16 is included as Revision 0 and as described in SCE&G Letter NND-10-0448.

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 clearly identifies the basis for each change made in COLA Revision 4 for the Parts specifically included in this submittal with the exception of those contained in Part 9 (withheld information).

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, Part 12, Part 13, and Part 15 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. Alfred M. 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 7th day of February, 2011.

Sincerely,



Ronald B. Clary
Vice President
New Nuclear Deployment

Enclosure – V.C. Summer Nuclear Station Units 2 and 3 COLA Revision 4,
Sensitive Version (DVD)

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