



February 10, 2009  
NND-09-0021

U.S. Nuclear Regulatory Commission  
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Washington, DC 20555

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Subject: Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3 Combined License Application (COLA) - Docket Numbers 52-027 and 52-028 Response to NRC Request for Additional Information (RAI) Letter No. 008

Reference: Letter from Tanya Simms (NRC) to Alfred M. Paglia (SCE&G), Request for Additional Information Letter No. 008 Related to SRP Section 8.1 for the Virgil C. Summer Nuclear Station Units 2 and 3 Combined License Application, dated January 21, 2009.

The enclosure to this letter provides the South Carolina Electric & Gas Company (SCE&G) response to the RAI items included in the above referenced letter. The enclosure also identifies any associated changes that will be incorporated in a future revision of the VCSNS Units 2 and 3 COLA.

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

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

Executed on this 10<sup>th</sup> day of February, 2009.

Sincerely,

Ronald B. Clary  
General Manager  
New Nuclear Deployment

ADU/RBC/jg

Enclosure

DOB3  
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c:

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**NRC RAI Letter No. 008 Dated January 21, 2009**

**SRP Section: 8.1 – Electric Power - Introduction**

**QUESTION from Electrical Engineering Branch (EEB)**

**NRC RAI Number: 08.01-1**

RAI – SRP 8.1 – EEB - 01

Regulatory Guide 1.206, Section C.I.8.1 states that "... [t]he applicant should provide a brief description of the utility grid and its interconnection to the nuclear unit and other grid interconnections."

Provide a description of the utility grid including transmission owner(s), transmission operator(s) and NERC Regional Corporation. Include existing reactors at the site and their respective connections to the transmission grid.

**VCSNS RESPONSE:**

A brief description, as requested, will be provided in FSAR Section 8.1.1 as indicated below in a future update to the COL application.

This response is PLANT SPECIFIC.

**ASSOCIATED VCSNS COLA REVISIONS:**

COLA Part 2, will be revised to add the following paragraph at the beginning of FSAR Subsection 8.1.1:

The VCSNS site consists of the existing VCSNS Unit 1 and the new VCSNS Units 2 and 3 reactors. VCSNS Unit 1 connects to the 115kV and 230kV SCE&G transmission systems via an existing 230kV switchyard and a 115kV transmission line. VCSNS Units 2 and 3 will connect to the 230kV SCE&G transmission system via a new 230kV switchyard. The SCE&G transmission system operator (TSO) is responsible for the safe and reliable operation of the electrical transmission system. The SCE&G transmission system consists of interconnected hydro plants, fossil-fueled plants, combustion turbine units and nuclear plants supplying energy to the service area at various voltages up to 230 kV. The transmission system is interconnected with neighboring utilities, and together, they form the Virginia-Carolina (VACAR) Sub region of the Southeastern Electric Reliability Council (SERC). As of January 2009, interconnected systems at 115kV and 230kV include Santee Cooper, Duke Energy, Progress Energy (East), Southeastern Power Administration (SEPA), and Southern Company.

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**ASSOCIATED ATTACHMENTS:**

None