



November 16, 2010
NND-10-0423

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

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 – Response to Clarification Request Concerning RAI
TLine-1.

Reference: 1. Letter from Ronald B. Clary to Document Control Desk,
Submittal of Revision 2 to Part 3 (Environmental Report) of the
Combined License Application for the V. C. Summer Nuclear
Station Units 2 and 3, dated July 2, 2010.

By letter dated March 27, 2008, South Carolina Electric & Gas Company (SCE&G) submitted a combined license application (COLA) for V.C. Summer Nuclear Station (VCSNS) Units 2 and 3, to be located at the existing VCSNS site in Fairfield County, South Carolina. Subsequently the Environmental Report (ER), Part 3 of the application, was revised and submitted to the NRC (reference 1).

This letter is in response to an electronically transmitted Clarification Request concerning RAI (Request for Additional Information) TLine-1 for a description of new substations to be constructed in support of VCSNS Units 2 and 3. Enclosed are the typical footprints for several planned substation upgrades to support the VCSNS Units 2 and 3 project. Most of these substations have not been completely designed to date and these areas represent typical arrangements used in similar substation design. Also listed within the enclosure are several future substations which were mentioned in transmission line siting studies and supporting GIS data as long range system planning considerations and are not within the scope of VCSNS Units 2 and 3 project.

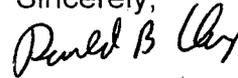
Please address any questions to Mr. Alfred M. Paglia, Manager, Nuclear Licensing, New Nuclear Deployment, P. O. Box 88, Jenkinsville, S.C. 29065; by telephone at 803-345-4191; or by email at apaglia@scana.com.

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

Executed on this 16th day of November, 2010.

Sincerely,



Ronald B. Clary
Vice President
New Nuclear Deployment

JFS/RBC/fs

Enclosures

c (with Enclosure):

Patricia Vokoun
Carl Berkowitz
DCRM-EDMS@SCANA.COM

c (without Enclosure):

Luis A. Reyes
John Zeiler
Joseph M. Sebrosky
Stephen A. Byrne
Ronald B. Clary
Jeffrey B. Archie
Bill McCall
Randolph R. Mahan
Kathryn M. Sutton
Dan Patton
April Rice
Findlay Salter
William M. Cherry
Joel Hjelseth
William E. Hutchins
William A. Fox, III

VCSummer2&3ProjectMail@Shawgrp.com
vcsummer2&3project@westinghouse.com

The dimensions listed in the following tables are based on typical footprint arrangements (including grounding, landscaping, etc) for which substantial design is yet to be completed.

Table 1. SCE&G Transmission System Upgrades - New Substation Construction and Addition Footprints

Status	Name	Dimension (FT)	Area (AC)
New	St. George Switching Station 230/115kV	810 x 745	13.85
Addition	Lake Murray Substation 230/115kV	300 x 300	2.07
Upgrade	Killian Substation 230/115kV	Existing Footprint	Existing Footprint

The following future substations listed in Table 2 have been mentioned in the VCSNS Units 2 and 3 Transmission Line Siting Study and/or Environmental Report as long range system planning considerations but are not within the VCSNS Units 2 and 3 project scope.

Table 2. Upgrades Supporting SCE&G Transmission System outside of VCSNS Units 2 and 3 Project Scope

Status	Name	Dimension (FT)	Area (AC)
New	Future Winnsboro Substation	800 x 700	12.86
New	Future Blythewood Substation	800 x 700	12.86
New	Future Lexington West Substation	800 x 700	12.86
New	Future Columbia South Substation	800 x 700	12.86
Upgrade	Cope Station	Existing Footprint	Existing Footprint

The following substations listed in Table 3a currently support the Santee Cooper Transmission System and will be connected to the respective transmission lines supporting the VCSNS Units 2 and 3 Project.

Table 3a. Santee Cooper Transmission System Upgrades – Substation Upgrades and Additions to Support VCSNS Units 2 & 3.

Status	Name	Dimension (FT)	Area (AC)
Upgrade	Pomaria Substation	Existing Footprint	Existing Footprint
Upgrade	Sandy Run Substation	Existing Footprint	Existing Footprint
Addition	Varnville Substation	282 x 350, 660 x 120	4.08
Addition	Winnsboro Substation	360 x 185	1.53
Upgrade	Richburg Substation	Existing Footprint	Existing Footprint
Upgrade	Flat Creek Substation	Existing footprint	Existing Footprint

The following Substations listed in Table 3b were previously planned to support Santee Cooper Transmission System Upgrades. While portions of these Substations (2 – 230kV Bays per station) will support the Summer –Varnville 230kV Transmission line, both substations have been previously planned and will be constructed independent of the VCSNS Units 2 & 3 project to support improvements in the Santee Cooper Transmission System.

Table 3b. Santee Cooper Transmission System Upgrades – Previously Planned Substations with Planned Utilization by VCSNS Units 2 & 3.

Status	Name	Dimension (FT)	Area (AC)
New	Orangeburg Substation	660 x 470	7.12
New	Byrds Substation	660 x 470	7.12