Ronald B. Clary
General Manager
New Nuclear Deployment

SCE&G®
A SCANA COMPANY

January 28, 2009
NND-09-0015

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 Supplemental Response to NRC Request for Additional Information (RAI) Letter No. 004

Reference: Letter from Tanya Simms (NRC) to Alfred M. Paglia (SCE&G), Request for Additional Information Letter No. 004 Related to SRP Section 7.5 for the Virgil C. Summer Nuclear Station Units 2 and 3 Combined License Application, dated November 18, 2008.

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. This letter is considered to supersede the original SCE&G response provided on December 16, 2008 (ML083530556). The information in this response remains unchanged from the original response, however, additional information was added on the system accuracies for wind speed, wind direction and differential temperature monitors.

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 28th day of January, 2009.

Sincerely,

Ronald B Clary

Ronald B. Clary
General Manager
New Nuclear Deployment

JMG/RBC/jg

D083
NRO

Enclosure

c: Luis A. Reyes
Ravindra G. Joshi
Tanya Simms
John Zieler
Stephen A. Byrne
Ronald B. Clary
Bill McCall
Kenneth J. Browne
Randolph R. Mahan
Kathryn M. Sutton
FileNet

NRC RAI Letter No. 004 Dated November 18, 2008

SRP Section: 07.05 - Information Systems Important to Safety

QUESTIONS for Instrumentation, Controls and Electrical Engineering 1 (ICE1)

NRC RAI Number: 07.05-1

Tables 7.5-1 and 7.5-8 of the AP1000 Design Control Document (DCD), Revision 16, Post-Accident Monitoring System, contain variables to monitor the meteorological parameters and environs radiation and radioactivity. These variables are defined as site specific. Define these variables in compliance with Regulatory Guide 1.97, Revision 3, as committed to in the combined license application, or justify an alternative approach.

Table 7.5-1 (Sheet 12 of 12) of the AP1000 DCD, Revision 16, identifies meteorological parameters as site specific. Additionally, Table 7.5-8 of the AP1000 DCD identifies "meteorology" and "boundary environs radiation and radioactivity" as site specific variables. However, the staff has not found where the combined license application addresses the parameters/variables. Explain where these variables are found.

VCSNS RESPONSE:

FSAR Section 7.5 will be revised to include the site specific information in two supplemental tables as shown below in a future revision of the FSAR.

This response is PLANT SPECIFIC.

ASSOCIATED VCSNS COLA REVISIONS:

The VCSNS COLA Part 2, FSAR Section 7.5 will be revised as follows:

This section of the referenced DCD is incorporated by reference with ~~no~~ the following departures and/or supplements.

VCS SUP 7.5-1 FSAR Table 7.5-201 supplements DCD Table 7.5-1 and provides variable data shown in DCD Table 7.5-1 as "site specific."

FSAR Table 7.5-202 supplements DCD Table 7.5-8 and provides variable data shown in DCD Table 7.5-8 as "site specific."

Table 7.5-201

POST-ACCIDENT MONITORING SYSTEM[a]

Variable	Range/ Status[b]	Type/ Category	Qualification		Number of Instruments Required	Power Supply	QDPS Indication	Remarks
			Environmental	Seismic				
Boundary environs Radiation								
•Airborne Radiohalogens and Particulates (portable sampling with onsite analysis capability)	10^{-9} to 10^{-3} µCi/cc	C3, E3	None	None	No minimum number of instruments is specified. A sufficient number are provided to outfit the Emergency Planning Field Teams.	Non-1E	No	
•Radiation (portable instrumentation)	10^{-3} to 10^{4} R/hr, photons 10^{-3} to 10^{4} rads/hr, beta and low-energy photons							
•Radioactivity (portable instrumentation)	Multichannel gamma ray spectrometer							
Meteorological parameters								
•Wind Speed	0 – 144 mph[c]	E3	None	None	2 (1 at 10 m and 1 at 60 m)	Non-1E	No	Differential temperature calculated from temperature measurements at 10 and 60 meters.
•Wind Direction	0º- 360º [d]				2 (1 at 10 m and 1 at 60 m)			
•Differential temperature	-40º F to 140º F [e]				2 (1 at 10 and 1 at 60 m)			

a) This table supplements DCD Table 7.5-1 and provides the site specific information to address the note in the remarks column of DCD Table 7.5-1.

b) These instruments conform to Regulatory Guide 1.97, Revision 3.

c) System accuracy ±0.011mph @ 0-5mph, ±0.11% @ 50mph and ±0.11% @ 100mph.

d) System accuracy ±0.22°.

e) System accuracy 0.17°F (for -0.6°F to 107.7°F). Range specified is for individual temperature instruments.

Table 7.5-202

SUMMARY OF TYPE E VARIABLES[a]

Function Monitored	Variable	Type/Category
Environs Radiation and Radioactivity	Plant Environs radiation levels and airborne radioactivity	E3
Meteorology	Wind speed, wind direction, and estimation of atmospheric stability (based on vertical temperature difference)	E3

a) This table supplements DCD Table 7.5-8 and provides the site specific information noted in the variable column of DCD Table 7.5-8

ASSOCIATED ATTACHMENTS:

None