



August 7, 2009  
NND-09-0234

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. 024

- Reference:
1. Letter from Ravindra G. Joshi (NRC) to Alfred M. Paglia (SCE&G), Request for Additional Information Letter No. 024 Related to SRP Section 6.4 for the Virgil C. Summer Nuclear Station Units 2 and 3 Combined License Application, dated January 22, 2009.
  2. Letter from Ronald B. Clary (SCE&G) to Document Control Desk (NRC), Response to NRC Request for Additional Information (RAI) Letter No. 024, dated February 23, 2009.
  3. Letter from Ronald B. Clary (SCE&G) to Document Control Desk (NRC), Supplemental Response to NRC Request for Additional Information (RAI) Letter No. 024, dated June 24, 2009.

The enclosure to this letter provides the South Carolina Electric & Gas Company (SCE&G) supplemental response to RAI 6.4-2d included in the above referenced letter (Reference 1). The enclosure identifies changes that have already been incorporated into Revision 1 of the COLA, submitted by letter dated July 30, 2009, and also identifies any associated changes that will be incorporated in a future revision of the VCSNS Units 2 and 3 COLA.

D083  
NND

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 7<sup>th</sup> day of August, 2009.

Sincerely,



Ronald B. Clary  
General Manager  
New Nuclear Deployment

JMG/RBC/jg

Enclosure

c:

Luis A. Reyes  
Chandu P. Patel  
Ravindra G. Joshi  
John Zieler  
Stephen A. Byrne  
Jeffrey B. Archie  
Ronald B. Clary  
Bill McCall  
William M. Cherry  
Randolph R. Mahan  
Kathryn M. Sutton  
Amy M. Monroe  
Courtney W. Smyth  
John J. DeBlasio  
FileNet

**NRC RAI Letter No. 024 Dated January 22, 2009**

**SRP Section: 06.04 - Control Room Habitability**

Question from Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

**NRC RAI Number: 06.04-2d**

d. Provide information for the impact of potential onsite (Units 2 and 3) chemicals on the control room habitability for Units 2 and 3.

Both Tables 2.2-202 and 2.2-205 of FSAR Sec. 2.2.3.1.3 are titled with "Unit 1". There is no other similar FSAR section or table dealing with any potential onsite chemicals for Units 2 and 3. Information for this situation is required in order to review the impact of potential onsite chemicals on the control room habitability for Units 2 and 3.

**VCSNS RESPONSE:**

Sections 2.2 and 6.4 of the VCSNS COLA have been changed in the recently submitted COLA Revision 1 in a manner consistent with the R-COLA response to their NRC RAI 02.02.03-10 (TVA Letter dated February 20, 2009, accession number ML090550126).

VCSNS COLA FSAR Subsection 2.2.2.2.1.1 (SCE&G Facilities – Units 2 and 3) has been revised to refer to new FSAR Table 6.4-201 which provides specific information about the chemicals that will be stored on-site and used for Units 2 and 3. The specific information in FSAR Table 6.4-201 includes the chemical names (or limiting types), the locations, the distance relative to the main control room air intakes, and their quantities. Except as noted in Table 6.4-201, all of the chemicals, quantities, and locations are indicated as standard (by the designation of either "STD-COL" or "STD-SUP"). As such, these chemicals are part of, and have been evaluated in conjunction with, the AP1000 standard design and found not to present a hazard to the control room operators or safety-related systems, structures, or components.

There are several chemicals listed in new FSAR Table 6.4-201 which are identified as "VCS-COL". These chemicals are the same as, or are similar to, those recommended by Westinghouse in the standard AP1000 design, but, due either to quantity or location they are considered to be plant-specific. These chemicals have been evaluated in a plant-specific evaluation and have been shown not to present a toxic hazard to the control room operators, or a flammability or explosion hazard to safety-related systems, structures, or components. The site specific evaluations will be made available for review to support NRC's independent confirmatory evaluations.

As stated above, VCSNS COLA FSAR Section 6.4.4 has been revised to include Table 6.4-201, which lists the chemicals associated with Units 2 and 3.

**ASSOCIATED VCSNS COLA REVISIONS:**

No COLA changes have been identified as a result of this response.

**ASSOCIATED ATTACHMENTS:**

None