



May 4, 2009
NND-09-0111

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 Response to NRC Request for Additional Information (RAI) Letter No. 042

Reference: Letter from Tanya Simms (NRC) to Alfred M. Paglia (SCE&G), Request for Additional Information Letter No. 042 Related to SRP Section 9.2.4 for the Virgil C. Summer Nuclear Station Units 2 and 3 Combined License Application, dated April 2, 2009.

The enclosure to this letter provides the South Carolina Electric & Gas Company (SCE&G) response to the RAI item 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.

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

Executed on this 4th day of May, 2009.

Sincerely,

Ronald B. Clary
General Manager
New Nuclear Deployment

AMM/RBC/am

Enclosure

D083
NRW

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NRC RAI Letter No. 042 Dated April 2, 2009

SRP Section: 9.2.4 – Potable and Sanitary Water Systems

Question from Balance of Plant Branch 2 (SBPB)

NRC RAI Number: 09.02.04-1

As applied to the potable water system, GDC 60 requires system design provisions to prevent liquid effluents containing radioactive materials from contaminating the potable water system. Section 9.2.5.3 of the FSAR states that no interconnections exist between the potable water system (including its supply from the water treatment facility) and any system using water for purposes other than domestic water service including any potentially radioactive system. FSAR Figure 9.2-201, "Raw Water System Flow Diagram," appears to show that interconnections to other systems do exist. Provide additional information in the FSAR to address this inconsistency.

VCSNS RESPONSE:

The ancillary raw water system and the potable water system both receive make-up water from an off-site water treatment facility. The location of the off-site water treatment facility can be seen in FSAR Figure 1.1-202, "VCSNS Site Plan". As indicated in the letter from Ronald B. Clary (SCE&G) to the Document Control Desk, Response to NRC Request for Additional Information (RAI) Letter No. 027, dated March 4, 2009, the raw water system does not have the potential to become contaminated. The only association the potable water system has with the ancillary raw water system is the off-site water treatment facility. Therefore the possibility for the potable water system to become contaminated does not exist.

This response is PLANT SPECIFIC.

ASSOCIATED VCSNS COLA REVISIONS:

The following changes to the FSAR will be incorporated in a future revision of the VCSNS Units 2 and 3 COLA:

9.2.5.3 System Operation

~~Modify the first paragraph of DCD Subsection 9.2.5.3 as follows:~~

~~Filtered and disinfected water is supplied from the water treatment facility for the potable water distribution system.~~

Add the following paragraph after the first paragraph of DCD Subsection 9.2.5.3:

Disinfected water is supplied from the water treatment facility for the potable water distribution system.

~~Modify the fourth paragraph of DCD Subsection 9.2.5.3 as follows:~~

~~No interconnections exist between the potable water system (including its supply from the water treatment facility) and any system using water for purposes other than domestic water service including any potentially radioactive system.~~

Add the following paragraph after the fourth paragraph of DCD subsection 9.2.5.3:

The onsite raw water system described above is considered to be the offsite water treatment facility for the purpose of the potable water system. The potable water system is supplied with water from the water treatment facility such that it is not contaminated from other raw water systems within the water treatment facility.

ASSOCIATED ATTACHMENTS:

None