

November 3, 2010

Mr. Stephen A. Byrne  
Senior Vice President  
and Chief Nuclear Officer  
South Carolina Electric & Gas Company  
Columbia, South Carolina 29218

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 – COMBINED  
LICENSE APPLICATION - ADVANCED SAFETY EVALUATION WITHOUT OPEN  
ITEMS FOR CHAPTER 9, "AUXILIARY SYSTEMS"

Dear Mr. Byrne:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing an Advanced Safety Evaluation (ASE) without open items (OIs) for each chapter of the V. C. Summer Nuclear Station (VCSNS), Units 2 and 3 Combined License Application (COLA) submitted by South Carolina Electric & Gas Company (SCE&G) on March 27, 2008.

Enclosed is the staff's ASE without OIs for Chapter 9, "Auxiliary Systems." Sections of this ASE contain the staff's evaluation of your requested wet-bulb temperature exemption. The staff's evaluation of the wet-bulb temperature exemption can also be found in ASE Sections 2.0, 2.3.1, 5.4, 6.2, and 6.4, which are transmitted separately from this letter. This safety evaluation is also being provided to the Advisory Committee on Reactor Safeguards (ACRS) Subcommittee to support upcoming meetings of the ACRS Subcommittee to be held in December 2010.

The enclosed ASE without OIs is being provided only to SCE&G for review of proprietary information pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 "Public Inspections, Exemptions, Requests for Withholding." The staff concludes that the enclosed ASE does not contain any information for which exemption from public disclosure has been sought or approved or any factual errors. However, the NRC will withhold the enclosed ASE from public disclosure for ten working days from the date of this letter to allow you the opportunity to verify the staff's conclusion that the ASE contains no such exempt information or any factual errors. If within that ten day period, you do not request that all or portions of the ASE be withheld from public disclosure, the enclosure will be made available for public inspection through the NRC Public Document Room and the Publicly Available Records component of the NRC's Agencywide Documents Access and Management System (ADAMS) and placed on the NRC's public web page for this application.

Document transmitted herewith  
contains sensitive unclassified  
information. When separated from  
the enclosure, this document is  
"DECONTROLLED."

S. Byrne

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If you have any questions or comments concerning this matter, please contact Mr. Joseph Sebrosky, the lead project manager for the VCSNS COL application at (301) 415-1132, [joseph.sebrosky@nrc.gov](mailto:joseph.sebrosky@nrc.gov).

Sincerely,

**/RA/**

Jeffrey Cruz, Chief  
AP1000 Projects Branch (NWE 1)  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-027 and 52-028

Enclosure:  
Safety Evaluation, Chapter 9

cc w/o encl: See next page

S. Byrne

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If you have any questions or comments concerning this matter, please contact Mr. Joseph Sebrosky, the lead project manager for the VCSNS COL application at (301) 415-1132, [joseph.sebrosky@nrc.gov](mailto:joseph.sebrosky@nrc.gov).

Sincerely,

**/RA/**

Jeffrey Cruz, Chief  
AP1000 Projects Branch (NWE 1)  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-027 and 52-028

Enclosure:  
Safety Evaluation, Chapter 9

cc w/o encl: See next page

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(Revised 09/09/2010)

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