



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 13, 2015

Mr. Thomas D. Gatlin
Vice President, Nuclear Operations
South Carolina Electric & Gas Company
Virgil C. Summer Nuclear Station
Post Office Box 88, Mail Code 800
Jenkinsville, SC 29065

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1 – REQUEST FOR
ADDITIONAL INFORMATION REGARDING LICENSE BASIS CHANGES IN
STEAM GENERATOR TUBE RUPTURE ANALYSIS (TAC NO. MF4699)

Dear Mr. Gatlin:

By letter dated August 27, 2014, the South Carolina Electric & Gas Company (SCE&G, the licensee) submitted a license amendment request (LAR) to revise Facility Operating License No. NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1. SCE&G is proposing to revise the licensing basis to incorporate a supplemental analysis to the steam generator tube rupture accident.

The NRC staff has determined that additional information is needed to continue the review as discussed in the Enclosure. We request that SCE&G respond to these RALs within 30 days of the date of this letter. Please note that the NRC staff's review is continuing and further requests for information may be developed.

Sincerely,

A handwritten signature in black ink, reading "Shawn Williams", is positioned above the typed name.

Shawn Williams, Senior Project Manager
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-395

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

LICENSE AMENDMENT REQUEST

LICENSE BASIS CHANGES IN STEAM GENERATOR TUBE RUPTURE ANALYSIS

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-395

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the Virgil C. Summer Nuclear Station License Amendment Request (LAR), dated August 27, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14245A408) and supplements dated October 31, 2014, and February 12, 2015 (ADAMS Accession Nos. ML14308A075 and ML15055A143, respectively). The NRC staff has determined that the following requests for additional information (RAI) are required to complete the review.

RAI No. 1

In the NRC staff's Safety Evaluation dated October 4, 2010 (ADAMS Accession No. ML102160020), approving the Alternative Source Term (AST), Section 3.1.1 it states: "However, because of the apparent uncertainties discussed above, the NRC staff notes that these data may not be considered acceptable for use in other dose assessments of other meteorological applications without further NRC review and approval."

Therefore, please provide the most recent 3 years, with 90% recovery rate (per RG 1.230), of current meteorological data so that the staff can perform an assessment of the proposed X/Qs.

RAI No. 2

The NRC staff's previous approval for the Steam Generator Tube Rupture (SGTR) AST did not include an atmospheric dispersion factor for the low population zone from 0-2 hours; however, the reanalysis used a value of 5.06E-5. The application stated that this value was derived from a fuel handling accident analysis. Since a fuel handling accident is different from a SGTR, please justify the use of this value for the SGTR accident analysis.

RAI No. 3

Page 35 of the August 27, 2014, submittal, states that the atmospheric dispersion factors are presented in Table 11. A review of Table 11 shows that the values used are the same as those contained in the following application:

Letter from SCE&G to NRC, "License Amendment And Related Technical Specification Changes to Implement Full-Scope Alternative Source Term in Accordance with 10 CFR 50.67," February 17, 2009. (ADAMS Accession No. ML090720887)

Enclosure

In the NRC staff's approval of this application it states, "Therefore, the X/Q values should not be considered acceptable for use in other dose assessments or other meteorological applications without further NRC review and approval."

Given that the staff previously stated that these values should not be considered acceptable, please provide justification for using these values and demonstrate that these values are still appropriate with a more recent data set that does not have the uncertainties that were inherent in the previously provided data set.

April 13, 2015

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Sincerely,

/RA/

Shawn Williams, Senior Project Manager
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