

November 10, 2016

MEMORANDUM TO: Jennifer Dixon-Herrity, Chief  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Paul Kallan, Senior Project Manager */RA/*  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: REGULATORY AUDIT PLAN FOR THE REVIEW OF  
CALCULATIONS ON HYDROGEN GAS GENERATION IN THE  
RADWASTE BUILDING BUNKERS RELATED TO LAR 13-09  
(TAC RQ0409)

By letter dated February 27, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML14065A022), South Carolina Electric & Gas Company (the licensee) requested an amendment to Combined License Numbers NPF-93 and NPF-94, for V.C. Summer Nuclear Station Units 2 and 3. The proposed amendment has been modified numerous times since the original submittal, including Revision 1, submitted December 17, 2015 (ADAMS Accession No. ML15351A428) and Revision 1, Supplement 1, submitted June 1, 2016 (ADAMS Accession No. ML16154A048), with a planned Revision 1, Supplement 2, to be submitted in the coming months. The proposed amendment would revise the Updated Final Safety Analysis Report (UFSAR) in the form of departures from the plant-specific licensing basis documents that include changes to the Radwaste Building design. This amendment includes adding bunkers in the Waste Accumulation Room which is located in the Radwaste Building. The bunkers will be used for storing radioactive wastes including spent steam generator blowdown and condensate polishing demineralizer resins. Higher activity spent resins such as chemical and volume control system and liquid waste management system demineralizer resins that are not analyzed to be stored within the bunkers. Additional controls described in the UFSAR and the License Amendment Request further limit the types and quantities of material that can be stored in the Radwaste Building and bunkers.

The Radiation Protection and Accident Consequences Branch staff plans to conduct a regulatory audit to review the calculations regarding hydrogen gas generation rates and concentrations within the bunkers to ensure that the hydrogen concentrations within the bunkers

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remain less than the specified limit of 4 percent, with 1 year of storage of the assumed waste forms and quantities. This is important to preclude the possibility of conditions that could allow a hydrogen gas fire or explosion.

Docket Nos.: 52-027 and 52-028

Enclosure:  
Regulatory Audit Plan

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Docket Nos.: 52-027 and 52-028

Enclosure:  
Regulatory Audit Plan

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ADAMS ACCESSION NO: ML16305A426 – Package

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(Revised 10/03/2016)

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