



July 11, 2012  
NND-12-0336

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

ATTN: Document Control Desk

Subject: Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3  
Docket Numbers 52-027 and 52-028  
10 CFR 50.46 Thirty (30) Day Report

- Reference:
1. Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3 Combined License (COL) Numbers NPF-93 and NPF-94
  2. Letter and enclosures from Westinghouse Electric Company to Document Control Desk (NRC), "10 CFR 50.46 Thirty (30) Day Report for the AP1000<sup>®</sup> Standard Plant Design," dated June 13, 2012 (DCP\_NRC\_003214)
  3. Letter from South Carolina Electric & Gas to Document Control Desk (NRC), "Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3, Docket Numbers 52-027 and 52-028, 10 CFR 50.46 Annual Report," dated May 22, 2012 (NND-12-0196)

The purpose of this letter is to provide a required Thirty (30) Day Report in accordance with 10 CFR 50.46, "Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors," for the Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3 Combined License (COL) Numbers NPF-93 and NPF-94 (Reference 1).

On June 13, 2012, Westinghouse Electric Company (WEC) submitted a 10 CFR 50.46 Thirty (30) Day Report (Reference 2) to document the effects of fuel pellet thermal conductivity degradation and peaking factor burndown on the Large Break Loss-of-Coolant Accident (LBLOCA) Analysis of Record for the AP1000<sup>®</sup> Standard Plant Design. A summary of the updated peak cladding temperature allocations and their bases, including a proposed schedule for re-analysis of the LBLOCA, were provided in the WEC report.

The South Carolina Electric & Gas Updated Final Safety Analysis Report for VCSNS Units 2 and 3 incorporates the Generic AP1000<sup>®</sup> Design Control Document, as modified by departures, and thus utilize the peak cladding temperature calculations

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performed by WEC. Therefore, the WEC Thirty (30) Day Report (Reference 2) is also applicable to the VCSNS Units 2 and 3 COLs. Prior to this report, the most recent 10 CFR 50.46 report for VCSNS Units 2 and 3 was provided to the NRC on May 22, 2012 (Reference 3).

Please address questions regarding this correspondence to Mr. Alfred M. Paglia, Manager, Nuclear Licensing, New Nuclear Deployment, P.O. Box 88, Jenkinsville, SC 29065; by telephone at (803) 941-9876; or by email at [alfred.paglia@scana.com](mailto:alfred.paglia@scana.com).

Sincerely,



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