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August 4, 2010

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

Subject: Duke Energy Carolinas, LLC (Duke)
William States Lee III Nuclear Station - Docket Nos. 52-018 and 52-019
Combined License Application for the
William States Lee III Nuclear Station Units 1 and 2
10 CFR 50.46 Thirty Day Report
Ltr # WLG2010.08-01

The purpose of this letter is to provide a required 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 combined license (COL) application submitted for William States Lee III Nuclear Station (WLS).

On June 30, 2010, Westinghouse Electric Company, LLC (WEC) submitted to the NRC a thirty day report (letter number DCP/NRC2943) as required by 10 CFR 50.46. The WEC letter documents an emergency core cooling system evaluation model error that affects the peak cladding temperature for the Small Break Loss-of-Coolant Accident (SBLOCA). As stated in that letter, the peak cladding temperature is now 1634°F for the SBLOCA and does not exceed the 10 CFR 50.46(b)(1) acceptance criterion of 2200°F. Details of the error and WEC actions to correct the error are provided in the above referenced WEC letter.

Duke's COL application for the proposed WLS Units 1 and 2 incorporates by reference the AP1000 design control document (DCD), and thus, utilizes the peak cladding temperature calculations performed by WEC. Therefore, the WEC report is also applicable to the WLS AP1000 COL application.

If you have any questions or need any additional information, please contact Peter Hastings, Nuclear Plant Development Licensing Manager, at (980) 373-7820.

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