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

10 CFR 52, Appendix D.X.B

Subject: Duke Energy Carolinas, LLC
William States Lee III Nuclear Station – Docket Nos. 52-018 and 52-019
AP1000 Combined License Application for the
William States Lee III Nuclear Station Units 1 and 2
Departure Report Update
Ltr# WLG2015.10-03

Part 7 of the William States Lee III Nuclear Station (WLS) Units 1 and 2 COL Application contains the WLS Departure Report, which describes WLS-specific departures from the AP1000 Design Control Document (DCD), Revision 19. By letter WLG2015.4-01, dated April 22, 2015, Duke submitted the most recent update to the WLS Units 1 and 2 Departure Report.

The purpose of this letter is to update the WLS Departure Report in accordance with Paragraphs X.B.1 and X.B.3.b of Appendix D to 10 CFR Part 52. There is one addition to the departures contained in the WLS Departure Report identified during the most recent six-month reporting period.

If you have any questions or need any additional information, please contact Robert H. Kitchen, Nuclear Development Licensing Director, at (704) 382-4046.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on October 19, 2015.

Sincerely,

Christopher M. Fallon
Vice President
Nuclear Development

DO93
NRO

Enclosure: Six Month Departure Report

xc (w/ enclosure):

Laura Dudes, Deputy Regional Administrator, Region II
Brian Hughes, Senior Project Manager, DNRL

Enclosure to WLG2015.10-03

Six Month Departure Report

Departure Number: WLS DEP 7.3-1

Title: Compliance with IEEE 603

Activity Description:

The block of the flux doubling logic did comply with IEEE 603-1991 with regard to resetting the block when shutting down from power operations. The flux doubling logic would be reset (the block removed) when neutron flux fell below the P-6 setpoint, which satisfied a part of IEEE 603. However, the PMS did not comply with the requirement to impose permissive conditions on block of the flux doubling logic. On the contrary, the operators are able to block the flux doubling logic at any time, as no permissive conditions are programmed into the PMS to permit blocking the flux doubling logic for Boron Dilution. In addition, the PMS included no logic to reinstate permissive conditions or actuate the necessary protective functions when the conditions are not met. The proposed changes ensure the PMS source range flux doubling design functions to prevent an inadvertent dilution of the reactor coolant system are met.

Summary of Evaluation:

The proposed changes do not adversely affect any safety-related equipment or function, design function, radioactive material barrier or safety analysis. This change satisfies IEEE 603-1991, Clause 6.6, and is consistent with the accident analyses concerning inadvertent RCS dilution, as described in Chapter 15 and maintains reactor protection as required. Therefore, there are not any adverse effects on the design function of preventing criticality from inadvertent RCS dilution. Procedures currently provide guidance for operation of the flux doubling feature during plant operations. This change does not impact any accident analysis and is consistent with the results. There is not an adverse impact to the DCD described design function, method of evaluation or fission product barriers.