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February 9, 2010

United States Nuclear Regulatory Commission
Washington, DC 20555-0001

ATTENTION: Document Control Desk

Subject: Duke Energy Carolinas, LLC (Duke)
McGuire Nuclear Station Unit 1
Docket No. 50-369
Update on Corrective Actions to Resolve the
Auxiliary Feedwater System Air Entrainment
Condition

Reference 1: Duke letter to NRC dated June 28, 2007

The purpose of this letter is to provide an update on Duke's plans for resolving an Operable But Degraded Non-conforming (OBDN) condition which existed on the Auxiliary Feedwater (CA) System at McGuire Nuclear Station (McGuire). As communicated in Reference 1, an additional air entrainment scenario was identified at the Unit 1 Standby Shutdown System (SSS) CA supply connection via valves 1CA-161C and 1CA-162C. Unit 2 is not susceptible to this air entrainment scenario. This OBDN condition is documented in the McGuire Corrective Action Program as M-06-02284.

Also communicated in Reference 1, McGuire would provide a schedule for implementing the corrective actions to resolve the CA system air entrainment OBDN condition. The plan and schedule for resolving this OBDN condition follows:

To resolve the air entrainment issue, a modification was performed to delete the automatic open feature for valves 1CA-161C and 1CA-162C such that these become manually operated valves. The initial CA water source for SSS events will be provided by the CA Storage Tank. Manual alignment of the Condenser Circulating Water system via valves 1CA-161C and 1CA-162C can be performed after the water source has been confirmed to be water solid. The modifications on valves 1CA-161C and 1CA-162C were performed on February 5, 2010.

This letter completes McGuire's commitment to update the NRC on the CA system air entrainment conditions:

ADD
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Please contact Lee Hentz at 980-875-4187 or Jim Mead at 980-875-4129 if any questions arise.

Sincerely,



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