

June 28, 2007

United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555-0001

Subject: Duke Power Company LLC d/b/a
Duke Energy Carolinas, LLC (Duke)
McGuire Nuclear Station Units 1 and 2
Docket Nos. 50-369 and 50-370
Update on Corrective Actions to Resolve the
Auxiliary Feedwater System Air Entrainment
Condition

Reference 1: Duke letter to NRC dated April 25, 2006
Reference 2: Duke letter to NRC dated September 7, 2006

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 currently exists on the Auxiliary Feedwater (CA) System at McGuire Nuclear Station (McGuire).

As stated in Reference 1, McGuire would provide a committed schedule for implementing the corrective actions to resolve the CA system air entrainment OBDN condition on both units upon completion of vendor testing and design validation. Per Reference 2, the testing conducted demonstrated that the modifications under design would not resolve the subject OBDN conditions. As a result, McGuire was forced to abandon the design work in progress and start design work on alternative system modifications.

The following committed schedule for resolving this OBDN condition is provided below:

Due to the complexity of the analytical work and the large scope of the modification, the Unit 1 piping modification work was not completed during the spring 2007 refueling outage. The Unit 1 CA system OBDN condition will be resolved by the end of the refueling outage scheduled for September 2008.

A001

U.S. Nuclear Regulatory Commission
June 28, 2007
Page 2

The Unit 2 piping modification work will be completed during Unit 2 refueling outage scheduled for March 2008 such that the Unit 2 OBDN will be resolved by the end of April 2008.

After further engineering evaluation in conjunction with the vendor testing results, another air entrainment scenario was identified at the Unit 1 Standby Shutdown System (SSS) CA supply connection via valves 1CA-161C and 1CA-162C. This OBDN condition is documented in the McGuire Corrective Action Program as M-06-02284. Piping modifications are also proposed to resolve this condition but design work has not yet started.

The schedule for resolving the air entrainment issue at the CA SSS connection will be communicated once it is developed.

Please contact Lee Hentz at 704-875-4187 or Jim Mead at 704-875-4129 if any questions arise.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary R. Peterson". The signature is written in a cursive style with a large initial "G".

Gary R. Peterson

U.S. Nuclear Regulatory Commission
June 28, 2007
Page 3

xc:

W. D. Travers
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

J. F. Stang, Jr. (addressee only)
Project Manager
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Mail Stop 8-H4A
Washington, D.C. 20555

J. B. Brady
Senior Resident Inspector
U. S. Nuclear Regulatory Commission
McGuire Nuclear Station