



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 15, 2012

Mr. Regis T. Repko
Vice President
McGuire Nuclear Station
Duke Energy Carolinas, LLC
12700 Hagers Ferry Road
Huntersville, NC 28078

SUBJECT: MCGUIRE NUCLEAR STATION, UNITS 1 AND 2, REQUEST FOR ADDITIONAL INFORMATION REGARDING LICENSE AMENDMENT RELATED TO CHANGES TO TECHNICAL SPECIFICATION 3.8.3, "DIESEL FUEL OIL AND STARTING AIR" (TAC NOS. ME7275 AND ME7276)

Dear Mr. Repko:

By letter dated September 26, 2011, Duke Energy Carolinas, LLC (the licensee), submitted a proposed license amendment to change the McGuire, Units 1 and 2 Technical Specifications (TSs). The proposed change revises the TSs to adopt Standard Technical Specification 3.8.3, Condition E, from NUREG-1431, Volume 1, Revision 3.0, "Standard Technical Specifications - Westinghouse Plants: Specifications," regarding Diesel Generator starting air receiver pressure limits.

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the licensee's submittal and determined that additional information is needed in order to complete our review. The enclosed document describes this request for additional information. A written response should be provided to the NRC staff within 30 days of the issuance of this letter in order to support our timely review of this application.

If you have any questions, please call me at 301-415-1119.

Sincerely,

A handwritten signature in cursive script that reads "Jon Thompson".

Jon Thompson, Project Manager
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-369 and 50-370

Enclosure: RAI

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REQUEST FOR ADDITIONAL INFORMATION
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
REGARDING LICENSE AMENDMENT REQUEST RELATED TO
TO CHANGES TO TECHNICAL SPECIFICATION 3.8.3,
"DIESEL FUEL OIL AND STARTING AIR"
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

By letter dated September 26, 2011 (Agencywide Documents Access and Management System, Accession No. ML11277A022), Duke Energy Carolinas, LLC (the licensee), submitted the subject license amendment request (LAR) to change the McGuire, Units 1 and 2 Technical Specifications (TSs). The proposed change revises the TSs to adopt Standard Technical Specification (STS) 3.8.3, Condition E, regarding diesel generator (DG) starting air receiver pressure limits, from NUREG-1431, Volume 1, Revision 3.0, "Standard Technical Specifications - Westinghouse Plants: Specifications."

The regulation at Title 10 of the *Code of Federal Regulations* (10 CFR), Part 50, Appendix A, "General Design Criteria for Nuclear Power Plants," Criterion 17, "Electric Power Systems" (GDC 17), requires that, "An onsite electric power system . . . shall be provided to permit functioning of structures, systems and components important to safety...." It also requires that "The onsite electric power supplies, including the batteries, and the onsite electric distribution system, shall have sufficient independence, redundancy, and testability to perform their safety functions assuming a single failure."

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the licensee's submittal and determined that the following additional information is needed in order to complete our review:

1-1:

In section 3.0 of the LAR, the licensee states:

McGuire Updated Final Safety Analysis Report [UFSAR] Figure 9-143 provides a summary flow diagram of the VG [Starting Air] system. Note that this figure will be revised to show the cross-connection line between the VG sub-trains upstream of the VG receiver tanks.

Please provide the proposed revised figure referenced in section 3.0 of the LAR so that the proposed cross connection is clearly identified.

Enclosure

1-2:

In Section 3.0 of the LAR, the licensee states:

Empirical test data from VG system testing was used to determine the mass of air required per start during multiple starts from a single air receiver.

Section 9.5.6.1, "Design Bases," of the UFSAR states:

Analysis based on results obtained during testing finds the McGuire diesels are capable of starting 5 times consecutively from the initial conditions of one of the two starting air receivers isolated, the other receiver at the lowest pressure allowed by Technical Specifications and diesel room temperature at the highest allowed by Selected License Commitments. At least the first of these 5 consecutive starts will be a fast start.

Please provide the empirical test results and analysis, including the assumptions.

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