



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

September 14, 2015

Mr. Steven D. Capps
Vice President
McGuire Nuclear Station
Duke Energy Carolinas, LLC
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: MCGUIRE NUCLEAR STATION, UNITS 1 AND 2: REQUEST FOR
ADDITIONAL INFORMATION REGARDING LICENSE AMENDMENT
REQUEST NUCLEAR SERVICE WATER SYSTEM ALLOWED OUTAGE TIME
EXTENSION (TAC NOS. MF2983 AND MF2984)

Dear Mr. Capps:

By letter dated June 30, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15191A025), Duke Energy Carolinas, LLC (the licensee) submitted a license amendment request, which requested to modify selected Technical Specification Completion Times to support repair activity associated with the Nuclear Service Water System, Train 'A'.

The U.S. Nuclear Regulatory Commission 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 (RAI). On September 4, 2014, the Duke staff indicated that a response to the RAI would be provided within 30 days.

If you have any questions, please call me at 301-415-2481.

Sincerely,

A handwritten signature in black ink, appearing to read "G. Edward Miller", is written over a faint, larger signature.

G. Edward Miller, 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: Request for Additional
Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2
RELATED TO A LICENSE AMENDMENT REQUEST SUPPORTING CORRECTION OF A
NUCLEAR SERVICE WATER SYSTEM DEGRADED CONDITION
DUKE ENERGY CAROLINAS, LLC
DOCKET NOS. 50-369 AND 50-370

By letter dated June 30, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15191A025), Duke Energy Carolinas, LLC (Duke Energy) submitted a license amendment request (LAR) to temporarily change McGuire Nuclear Station (MNS), Units 1 and 2, Technical Specifications (TSs) for correction of a degraded condition affecting the 'A' Train of the nuclear service water system (NSWS). The requested amendment would temporarily change the following TSs to allow the inoperability of the 'A' Train of the NSWS for a total of up to 14 days: TS 3.5.2, Emergency Core Cooling System (ECCS) - Operating; TS 3.6.6, Containment Spray System (CSS); TS 3.7.5, Auxiliary Feedwater (AFW) System; TS 3.7.6, Component Cooling Water (CCW) System; TS 3.7.7, Nuclear Service Water System (NSWS); TS 3.7.9, Control Room Area Ventilation System (CRAVS); TS 3.7.11, Auxiliary Building Filtered Ventilation Exhaust System (ABFVES), and TS 3.8.1, AC Sources-Operating. The 'A' Train of the shared NSWS would be inoperable while the safety-related supply from the MNS Nuclear Service Water Pond was drained and isolated to correct a degraded condition affecting that line.

Based on its review of this amendment request, the NRC staff has determined the following additional information is necessary to support completion of its technical review:

SCVB-RAI-001

The license amendment focuses on the temporary alignments and changes requested for the NSWS, however, these changes impact other systems. For the CSS, CRAVS, and the ABFVES:

- a. Explain the available capabilities of the above systems during the time when the requested temporary TSs would be enacted.
- b. Discuss the impact of any deviations from standard alignment and operation of the systems.

Enclosure

SRXB-RAI-001

While the approach taken in the proposed LAR is a qualitative risk approach, please address the need to preclude potentially high-risk plant configurations that could result if additional equipment, not associated with the proposed change, is taken out-of-service during the proposed Allowed Outage Time (AOT) extension. Provide a justification to limiting the prohibition of discretionary maintenance to the following systems:

- a. 1A EDG;
- b. 2A EDG;
- c. The 'A' Train of NSWS excluding the activities described in the LAR for the 'A' Train NSWS piping to the SNSWP;
- d. The 'B' Train of NSWS, ECCS, CSS, AFW, CCW, CRAVS, ABFVES or the EDGs;
- e. The switchyard and other offsite power sources; and
- f. The SSF.

Specifically, provide a justification for not implementing a broader limitation on discretionary maintenance (e.g., such as that of the cited STPNOC precedent (ML050100291), "*STPNOC will not perform any planned voluntary maintenance in Unit 1 during the extended AOT (EAOT) that would increase the ICCDP.*").

SRXB-RAI-002

The LAR lists the following equipment to be protected during the AOT extension of the 'A' train of NSWS:

- a. 'B' Train NSWS
- b. 1B EDG
- c. 2B EDG
- d. 1B ECCS
- e. 2B ECCS
- f. 1B CSS
- g. 2B CSS
- h. 1B AFW
- i. 2B AFW
- j. 1B CCW
- k. 2B CCW
- l. B CRAVS
- m. B ABFVES
- n. Auxiliary Building WZ Sump and equipment supporting function of sump

Provide a discussion on the criteria used to determine the protected equipment. Include a justification for not including the turbine driven AFW pump, Containment Ventilation Cooling Water (RV) system and the Standby Shutdown Facility (SSF) standby makeup pump, which appear to be important to managing the risk of the proposed AOT extension.

SRXB-RAI-003

Clarify whether any maintenance will be allowed on the 'A' Train NSWS that would impact the ability of the system to operate taking suction from the Lake Norman Low Level Intake (LLI) (even if these activities are within the 72 completion time) during the period that the Standby Nuclear Service Water Pond (SNSWP) suction is not available for the 'A' train of NSWS.

Specifically, address what is meant by the following statement in section 3.5 of the LAR:

2. *Any maintenance that is performed on the remaining portions of the 'A' Train NSWS during the period in which the 'A' NSWS piping from the SNSWP is not available will be limited to a 72 hour completion time.*

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/RA/

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ADAMS Accession No. ML15252A276

***Via E-mail**

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NAME	GEMiller	SFiguroa	CJackson*	RDennig	RPascarelli
DATE	09/14/15	09/14/15	08/28/15	08/27/15	09/14/15

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