



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

April 28, 2014

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 TO MODIFY TECHNICAL SPECIFICATION 3.3.2 SETPOINT
(TAC NOS. MF2741 AND MF2742)

Dear Mr. Capps:

By letter dated September 12, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML13262A500), Duke Energy Carolinas, LLC (the licensee) submitted a license amendment request, which requested to modify Technical Specification 3.3.2, "Engineered Safety Features Actuation System (ESFAS) Instrumentation." Specifically, the proposed change would modify the setpoint for Auxiliary Feedwater Pump Suction Transfer in support of your efforts to comply with NRC Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events."

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 (RAI). On April 23, 2014, the Duke staff indicated that a response to the RAI would be provided by May 23, 2014.

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

PROPOSED CHANGES TO TECHNICAL SPECIFICATION 3.3.2

IN SUPPORT OF COMPLIANCE WITH NRC ORDER EA-12-049

DOCKET NOS. 50-369 AND 50-370

By letter dated September 12, 2013, (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13262A500), Duke Energy Carolinas submitted a license amendment request (LAR) to amend the Technical Specifications (TSs) 3.3.2, "Engineered Safety Feature Actuation System (ESFAS) Instrumentation," FUNCTION 6.f, "Auxiliary Feedwater Pump Suction Transfer on Suction Pressure – Low (c)" for McGuire Nuclear Station, Units 1 and 2, in support of plant modifications required to achieve compliance with the NRC Order EA-12-049, "Order Modifying Licenses with Regard to Requirements of Mitigation Strategies for Beyond-Design-Basis External Events," dated March 12, 2012. In order for the NRC staff to complete its review of the LAR, the following additional information is requested.

1. In the submittal, Duke stated:

The existing safety-related automatic alignment of NSW to the AFW pumps' suction is achieved by means of pressure switches which open AC-motor operated valves. The pressure switches are located on the AFW pump suction lines. The AFW MDPs utilize two pressure switches per train (one switch per isolation valve). The TDAFWP utilizes four switches per train. A low pressure signal sensed by two switches on either train will cause the assured NSW supply of water for the pump to be aligned.

The NRC staff acknowledges that a low pressure signal sensed by two switches on a train of pressure switches associated with the motor-driven auxiliary feedwater pump will open flow from the service water header to the pump's suction. However, the submittal indicated that the turbine-driven auxiliary feedwater pump has four pressure switches per train. From the description given, it appears that there are actually two trains of two switches in this logic, each train associated with a different nuclear service water header. If this is the situation, the above statement, "A low pressure signal sensed by two switches on either train will cause the assured NSW supply of water for the pump to be aligned," would not be true for all cases for the turbine-driven auxiliary feedwater pump. In this case, only a select two pressure switches of the four switches will open flow from a service water header.

The NRC staff requests the licensee to clarify its description of the pressure switch logic associated with the turbine-driven auxiliary feedwater pump and make any necessary changes.

2. The licensee is proposing different setpoints for the pressure switches on the "2A" motor-driven auxiliary feedwater pumps. The TSs are combined for Unit 1 and Unit 2.

Enclosure

Figure 1 in Attachment 4 shows some piping configurations are different for the two units, especially where the new "SSS/ELAP" supply of water ties into the suction piping.

The NRC staff requests confirmation that the elevation difference for the "2A" motor-driven auxiliary feedwater pumps is 2-feet on both units.

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/RAI/

G. Edward Miller, Project Manager
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