



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

January 30, 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 RELIEF REQUEST 13-MN-002,  
RISK-INFORMED INSERVICE INSPECTION PROGRAM, FOURTH INSERVICE  
INSPECTION INTERVAL (TAC NOS. MF2609 AND MF2610)

Dear Mr. Capps:

By letter dated August 13, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML13234A069), Duke Energy Carolinas, LLC (the licensee) submitted Relief Request 13-MN-002, which requests authorization to implement a risk-informed inservice inspection (RI-ISI) program based on Electric Power Research Institute TR-112657 for American Society of Mechanical Engineers Class 1 and 2 piping welds for the third 10-year inspection interval at McGuire Nuclear Station, Units 1 and 2.

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 January 15, 2014, the Duke staff indicated that a response to the RAI would be provided within 30 days of the date of this letter.

If you have any questions, please call me at 301-415-5888.

Sincerely,

A handwritten signature in black ink, appearing to read "J. C. Paige", written over a faint, larger signature.

Jason C. Paige, 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

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REQUEST FOR ADDITIONAL INFORMATION  
BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
REGARDING RELIEF REQUEST 13-MN-002  
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

By letter dated August 13, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML13234A069), Duke Energy Carolinas, LLC (the licensee) submitted Relief Request 13-MN-002, which requests authorization to implement a risk-informed inservice inspection (RI-ISI) program based on Electric Power Research Institute TR-112657 for American Society of Mechanical Engineers Class 1 and 2 piping welds for the third 10-year inspection interval at McGuire Nuclear Station, Units 1 & 2.

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

1. In Section 2 of the request it is stated that the Code of Record for Unit 1 will change with the start of the second period. What is the start date for the second period?
2. In Section 3.3.4 of Enclosure 1 you state that relief requests for cases where less than 90% coverage is obtained will be submitted. Please describe the efforts in weld selection such that >90% coverage is attainable in the RI-ISI program, both going forward and in previously examined welds that will be credited towards satisfying the RI-ISI program inspections. Will examinations that have already been performed that achieved <90% weld coverage be credited to satisfy RI-ISI program inspection requirements?
3. Regulatory Position 4.1 of Regulatory Guide 1.178, Revision 1, "An Approach for Plant-Specific Risk-Informed Decisionmaking for Inservice Inspection of Piping," states that the results of the licensee's inservice inspection-specific analysis should include the degradation mechanisms for each segment used to develop the failure potential of each segment.

Section 3.4.1, "Quantitative Analysis," of the submittal states a review was conducted that verified that the low safety significant piping was not susceptible to water hammer. However, the NRC staff could not find a similar statement about high safety significant (HSS) piping in the submittal.

Confirm that HSS piping that has a degradation mechanism potential (as identified in Tables 3.4a, "Unit 1 Risk Impact Analysis Results," and 3.4b, "Unit 2 Risk Impact Analysis Results," of the submittal) is not susceptible to water hammer, such that the pipe failure frequency used to characterize the risk increase from discontinued inspections in the change in risk evaluation would increase to the high failure potential rank.

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**/RA/**

Jason C. Paige, Project Manager  
Plant Licensing Branch II-1  
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NAME	JPaige	SFiguroa	RPascarelli	JPaige
DATE	1/30/14	1/27/14	1/30/14	1/30/14

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