NRR-PMDAPEm Resource

From: Thompson, Jon
Sent: Thursday, March 01, 2012 2:51 PM
To: Ashe, Ken; Vu, Phong T
Cc: Salgado, Nancy; Lupold, Timothy; Rezai, Ali; Sydnor, Christopher
Subject: Request for Additional Information for Relief Request 12-MN-002 submitted January 11, 2012

SUBJECT: MCGUIRE NUCLEAR STATION, UNIT 2 (MCGUIRE 2), REQUEST FOR ADDITIONAL INFORMATION (RAI) REGARDING RELIEF REQUEST (RR) 12-MN-002, "LIMITED WELD EXAMINATIONS DURING REFUELING OUTAGE 2EOC20" (TAC NO. ME7877)

By letter dated January 11, 2012, Duke Energy Carolinas, LLC (the licensee), submitted the subject RR for McGuire 2. The U.S. Nuclear Regulatory Commission staff has reviewed the licensee's submittal and determined that an RAI is needed in order to complete our review. The enclosed document describes this RAI. A written response should be provided to the NRC staff for these RAI questions within 30 days of this request. Please inform me as soon as possible if you are unable to support this response timeframe.

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

Sincerely,

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

Docket No. 50-370

Enclosure:
As stated

OFFICE OF NUCLEAR REACTOR REGULATION
REQUEST FOR ADDITIONAL INFORMATION
RELIEF REQUEST 12-MN-002
LIMITED WELD EXAMINATIONS DURING REFUELING OUTAGE 2EOC20
DUKE ENERGY CAROLINAS, LLC
MCGUIRE NUCLEAR STATION, UNIT 2
DOCKET NO. 50-370

By letter dated January 11, 2012, Duke Energy Carolina, LLC (the licensee) submitted Relief Request (RR) 12-MN-002 for McGuire Nuclear Station, Unit 2 (McGuire 2), "Limited Weld Examinations During Refueling Outage 2EOC20" (Agencywide Documents Access and Management System Accession No. ML12020A236) for the U.S. Nuclear Regulatory Commission (NRC) review and approval. The licensee requested relief from the volumetric coverage requirement for weld examinations specified in the American Society of Mechanical Engineers (ASME) *Boiler and Pressure Vessel Code* (Code), Section XI. RR 12-MN-002 is requested for the third 10-year in service inspection (ISI) interval of McGuire 2, which commenced on March 1, 2004, and will end on July 15, 2014.

To complete its review, the NRC staff requires the following additional information:

1. Discuss the piping system for which relief is requested. Specify the ASME Code class type (e.g., Class 1, 2, or 3 piping). Provide material specifications for the weld and associated piping.

2. Discuss the ISI examinations history (e.g, inspection years, disposition, and results) of the subject weld. Also, discuss whether any fabrication defects were detected in the pre-service inspection (PSI), and the disposition of identified defects.

3. Section 2.7 on page 3 of RR 12-MN-002 states, “Ultrasonic examination of the weld for the Item Number M2.R1.11.0276 was conducted using personnel, equipment, and procedures qualified in accordance with ASME Section XI, 1998 Edition with the 2000 Addenda.” Clarify which subarticles and/or appendices of the ASME Code, Section XI, were used for ultrasonic testing (UT) qualifications. If Appendix VIII was used, provide the supplement(s) number that is applicable to RR 12-MN-002.

4. The UT examinations reports on Page 1 and 2 in Attachment A of RR 12-MN-002 show that the result for UT examinations marked as “Reject,” even though the reports indicated that no indications were found. Discuss why the results of UT examinations were called “Reject.”

5. Table 4.1 1, Examination Category R A, Item No. R1.11, in the Topical Report (TP) by Westinghouse Owners Group WCAP-14572 Rev. 1 NP-A, Supplement 2, ”Westinghouse Owners Group Application of Risk Informed Methods to Piping Inservice Inspection Topical Report Clarifications,” was referenced in RR 12-MN-002. The NRC staff notes that Item No. R1.11 of Table 4.1.1 considers the weld for which relief is requested to be prone to potential degradation by thermal fatigue. Discuss whether any supplemental inspection was performed on the volume not examined by UT to ensure structural integrity of the system.

6. Discuss any industry or plant-specific operating experience regarding potential degradation (e.g, stress corrosion cracking (SCC) and corrosion) and potential severe loading (e.g., vibration, water hammer, and overloading) for the subject weld and associated components.

Enclosure

Hearing Identifier: NRR_PMDA
Email Number: 284

Mail Envelope Properties (Jon.Thompson@nrc.gov20120301145100)

Subject: Request for Additional Information for Relief Request 12-MN-002 submitted January 11, 2012
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From: Thompson, Jon

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