

November 24, 2015

ULNRC-06266

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

10 CFR 50.55a

Ladies and Gentlemen:

DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
RENEWED FACILITY OPERATING LICENSE NPF-30
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
THIRD 10-YEAR INTERVAL INSERVICE INSPECTION
REQUEST FOR RELIEF NO. I3R-11 (TAC NUMBER MF6736)

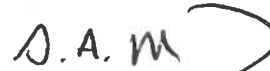
By letter dated September 14, 2015 (ADAMS Accession Number ML15258A432), and pursuant to 10 CFR 50, Section 50.55a(g)(5)(iii), Union Electric Company (Ameren Missouri) requested relief from the requirements of the ASME Code, Section XI, in regard to certain weld examinations performed during the third 10-year interval for the inservice inspection (ISI) Program at Callaway Plant. Four specific relief requests were submitted for the third 10-year ISI interval, for which the code of record was the 1998 Edition, through the 2000 Addenda of ASME Code, Section XI. In particular, per Relief Request I3R-11, relief was requested from the Code required "essentially 100 percent" volumetric examination coverage requirements applicable to the Pressurizer nozzle-to-vessel welds, ASME Section XI Category B-D, Item No. B3.110.

During its review of Relief Request I3R-11, the NRC staff determined that requests for additional information (RAIs) were needed to complete its review of the relief request. Pursuant to electronic correspondence dated November 3, 2015, the NRC transmitted a list of RAIs to Ameren Missouri in electronic form on November 12, 2015, and requested that responses be provided within 29 days. The responses to the RAIs are provided in the Attachment to this letter.

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This letter contains no new commitments. If there are any questions, please contact Tom Elwood at 314-225-1905.

Sincerely,

A handwritten signature in black ink, appearing to read "S. A. Maglio". The signature is stylized with a large, sweeping flourish that extends to the right and loops back under the name.

S. A. Maglio
Manager, Regulatory Affairs

JPK/

Attachment: Response to Request for Additional Information - Third 10-Year Interval Inservice Inspection Request for Relief No. I3R-11

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cc: Mr. Marc L. Dapas
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Index and send hardcopy to QA File A160.0761

Hardcopy:

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NSRB Secretary
STARS Regulatory Affairs
Mr. John O'Neill (Pillsbury Winthrop Shaw Pittman LLP)
Missouri Public Service Commission

**Attachment to
ULNRC-06266**

**Response to Request for Additional Information
Third 10-Year Interval Inservice Inspection
Request for Relief No. I3R-11
2 Pages**

**REQUEST FOR ADDITIONAL INFORMATION
THIRD 10-YEAR INTERVAL INSERVICE INSPECTION
REQUEST FOR RELIEF NO. I3R-11
UNION ELECTRIC COMPANY
CALLAWAY PLANT, UNIT 1
DOCKET NO. 50-48**

1.0 SCOPE

By letter dated September 14, 2015 (Agencywide Documents Access and Management System (ADAMS) at Accession Number ML15258A432), Union Electric Company (dba Ameren Missouri), the licensee, requested relief from the requirements of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME BPV Code), Section XI, for Callaway Plant, Unit 1 (Callaway) under the provisions of Title 10 of the Code of Federal Regulations (10 CFR), Part 50, Section 50.55a(g)(5)(iii), for the third 10-year inservice inspection (ISI) Program. Request for Relief (RR) No. I3R-11 applies to the third 10-year ISI interval, in which the licensee adopted the 1998 Edition, through the 2000 Addenda of ASME Code, Section XI as the code of record.

2.0 REGULATORY BASIS

2.1 10 CFR 50.55a(g), "Inservice Inspection Requirements," requires, in part, that Class 1, 2 and 3 piping, components and their supports, as well as metal and concrete containment components and their supports, meet the requirements of Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," of the ASME BPV Code or equivalent quality standards.

10 CFR 50.55a states the requirements governing the use of Code Cases, as amended by Regulatory Guide 1.147, Revision 17, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1," which accepts ASME Code Case N-460, "Alternative Examination Coverage for Class 1 and Class 2 Welds." The code case provides clarification that the stated requirement for examination of essentially 100 percent of the weld length means greater than 90 percent coverage of the examination volume, or surface area, as applicable.

3.0 REQUEST FOR ADDITIONAL INFORMATION

3.1 *For RR I3R-11, please identify the non-destructive examination procedure used in the subject ultrasonic examinations (e.g., ASME Code, Section XI, Appendix VIII; or Section V, Article 4; or other).*

Response:

The examination was performed in accordance with ASME Section V Article 4, as supplemented by Section XI Table I-2000-1. (Reference Section XI Article I-2400.)

- 3.2 *Please state the material of construction of the Pressurizer (PZR) nozzles contained in the table in RR I3R-11.*

Response:

The Pressurizer nozzle material is nominal 3" carbon steel with .25" SS ID clad.

- 3.3 *The licensee's enclosed inspection reports states that 0, 45, and 60 degree angles were used in the examinations of the subject PZR nozzles-to-vessel welds. Please fully clarify the wave modality and insonification angles used for each of the ultrasonic examinations of the PZR nozzle-to-vessel welds contained in RR I3R-11.*

Response:

To the extent practical, a 0-degree longitudinal wave examination was performed on the accessible examination volume. Also, 45- & 60-degree shear wave examinations were performed in two directions axial to the weld and in two directions parallel to the weld on the available examination volume.