

NRR-PMDAPEm Resource

From: Purnell, Blake
Sent: Tuesday, February 21, 2017 1:36 PM
To: Hanson, Stephanie J.:(GenCo-Nuc)
Cc: david.helker@exeloncorp.com; Green, Kimberly
Subject: Exelon Generation Company, LLC - Request for Additional Information Regarding Fleet Request for Alternative to Use Encoded Phased Array Ultrasonic Examination (CAC Nos. MF8763-MF8782)
Attachments: Exelon Phased Array UE RAI.pdf

Ms. Hanson:

By application dated November 2, 2016 (Agencywide Documents Access and Management System Accession No. ML16307A253), Exelon Generation Company, LLC (the licensee) submitted a request in accordance with Paragraph 50.55a(z)(1) of Title 10 of the Code of Federal Regulations (10 CFR) for a proposed alternative to the requirements of 10 CFR 50.55a and the American Society of Mechanical Engineers Boiler and Pressure Vessel Code for Braidwood Station, Units 1 and 2; Byron Station, Unit Nos. 1 and 2; Calvert Cliffs Nuclear Power Plant, Units 1 and 2; Dresden Nuclear Power Station, Units 2 and 3; LaSalle County Station, Units 1 and 2; Limerick Generating Station, Units 1 and 2; Nine Mile Point Nuclear Station, Units 1 and 2; Peach Bottom Atomic Power Station, Units 2 and 3; Quad Cities Nuclear Power Station, Units 1 and 2; R. E. Ginna Nuclear Power Plant; and Three Mile Island Nuclear Station, Unit 1. The proposed alternative would allow the licensee to use phased array ultrasonic examination techniques in lieu of radiographic examination of ferritic piping butt welds during repair/replacement activities.

The U.S. Nuclear Regulatory Commission staff has reviewed the application and determined that the additional information is needed for the staff to complete its review. Provide a response to the attached request for additional within 30 days. If you have any questions, please contact me at 301-415-1380.

Blake Purnell, Project Manager
Plant Licensing Branch III
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

Docket Nos. STN 50-456, STN 50-457, STN 50-454,
STN 50-455, 50-317, 50-318, 50-237,
50-249, 50-373, 50-374, 50-352, 50-353,
50-220, 50-410, 50-277, 50-278, 50-254,
50-265, 50-244, and 50-289

Hearing Identifier: NRR_PMDA
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Subject: Exelon Generation Company, LLC - Request for Additional Information
Regarding Fleet Request for Alternative to Use Encoded Phased Array Ultrasonic Examination (CAC
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Recipients:

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Tracking Status: None

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Tracking Status: None

"Hanson, Stephanie J.:(GenCo-Nuc)" <Stephanie.Hanson@exeloncorp.com>

Tracking Status: None

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Exelon Phased Array UE RAI.pdf		93070

Options

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REQUEST FOR ADDITIONAL INFORMATION

PROPOSED ALTERNATIVE TO USE

ENCODED PHASED ARRAY ULTRASONIC EXAMINATION TECHNIQUES

BRAIDWOOD STATION, UNITS 1 AND 2;

BYRON STATION, UNIT NOS. 1 AND 2;

CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2;

DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3;

LASALLE COUNTY STATION, UNITS 1 AND 2;

LIMERICK GENERATING STATION, UNITS 1 AND 2;

NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2;

PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3;

QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2;

R.E. GINNA NUCLEAR POWER PLANT; AND

THREE MILE ISLAND NUCLEAR STATION, UNIT 1.

EXELON GENERATION COMPANY, LLC

DOCKET NOS. STN 50-456, STN 50-457, STN 50-454, STN 50-455, 50-317, 50-318,

50-237, 50-249, 50-373, 50-374, 50-352, 50-353, 50-220, 50-410,

50-277, 50-278, 50-254, 50-265, 50-244, AND 50-289

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The U.S. Nuclear Regulatory Commission staff has reviewed the application and determined that the following information is needed for the staff to complete its review.

RAI-1

Paragraph IWA-4221, "Construction Code and Owner's Requirements," of the ASME BPV Code, Section XI, requires the owner to use the requirements of the construction code for repair/replacement activities. Many components identified in the proposed alternative use ASME BPV Code, Section III (various Editions), as the construction code. The examination requirements for Class 1 and 2 circumferential butt welds are contained in paragraphs NB-5200 and NC-5200, respectively, of the ASME BPV Code, Section III. These examination requirements include performance of radiographic examinations of these welds using the acceptance standards specified in paragraphs NB-5300 and NC-5300, as applicable, of the ASME BPV Code, Section III.

Clarify whether or not the proposed alternative is also intended to be used as an alternative to the requirements in ASME BPV Code, Section XI, paragraph IWA-4221.