

## NRR-PMDAPEm Resource

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**From:** Kim, James  
**Sent:** Wednesday, March 12, 2014 9:23 AM  
**To:** Wanda D Craft (wanda.d.craft@dom.com); William D Bartron (william.d.bartron@dom.com)  
**Cc:** Thadani, Mohan; Cumblidge, Stephen  
**Subject:** Second RAI for Millsone 2 - RR-04-16, UT in lieu of RT (TAC No. MF2520)

Bill & Wanda,

The U.S. Nuclear Regulatory Commission staff requests that the licensee provide additional information to support the relief from ASME Code Section XI-required radiographic testing of welds.

This email is considered as a formal RAI request and a copy of this email will be made publicly available.

SECOND REQUEST FOR ADDITIONAL INFORMATION  
BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELIEF REQUEST RR-04-16 REGARDING PHASED ARRAY  
ULTRASONIC EXAMINATION TECHNIQUES IN LIEU OF RADIOGRAPHY  
DOMINION NUCLEAR CONNECTICUT INC  
MILLSTONE POWER STATION UNIT 2  
DOCKET NO. 50-336 (TAC NO.MF2520)

By letter dated August 1 2013, (Agencywide Documents Access & Management System (ADAMS) Accession No.ML13220A019) and amended by letters dated November 22, 2013 and February 27, 2014, (ADAMS Accession Nos. ML13338A284 and ML14063A206 respectively) Dominion Nuclear Connecticut, Inc. (the licensee) submitted RR-04-16, requesting relief from the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (Code) Section XI, Paragraph IWA-4221. The 2004 Edition of ASME Section XI, paragraph IWA-4221 requires the use of the construction code for repair and replacement activities at Millstone Power Station Unit 2. The licensee is proposing to use phased array ultrasonic testing as an alternative to the required radiographic testing.

The U.S. Nuclear Regulatory Commission (NRC) staff requests that the licensee provide additional information to support the relief from ASME Code Section XI-required radiographic testing of welds.

1. Describe the radiographic testing procedure used to characterize the specimens described in the letter dated February 27 in detail. Identify if the radiographic testing procedure used single or double wall viewing and how many shots and angles were taken per weld.
2. Did the radiographic testing procedure used to evaluate the specimens described in the letter dated February 27 meet the requirements of ASME Code Section V Article 2?
3. Provide a table describing the implanted flaws used to qualify the ultrasonic inspection procedure. Include the flaw types and dimensions. The NRC staff understands that releasing this information may compromise the blind qualification testing. If this information is proprietary include the necessary affidavit for the NRC staff to treat the information as proprietary.
4. Provide examples of successful ultrasonic detection of planar flaws in the 0.28 inch thick test blocks.

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 1162

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**From:** Kim, James

**Created By:** James.Kim@nrc.gov

**Recipients:**

"Thadani, Mohan" <Mohan.Thadani@nrc.gov>

Tracking Status: None

"Cumblidge, Stephen" <Stephen.Cumblidge@nrc.gov>

Tracking Status: None

"Wanda D Craft (wanda.d.craft@dom.com)" <wanda.d.craft@dom.com>

Tracking Status: None

"William D Bartron (william.d.bartron@dom.com)" <william.d.bartron@dom.com>

Tracking Status: None

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**Priority:** Standard

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**Recipients Received:**