

NRR-PMDAPEm Resource

From: Lingam, Siva
Sent: Monday, August 26, 2013 8:43 AM
To: Mackaman, Clyde Douglas (cdmackaman@tva.gov)
Cc: Broaddus, Doug; Lupold, Timothy; Tsao, John; Rezai, Ali; Schrull, Edward D (edschrull@tva.gov)
Subject: Sequoyah, Units 1 and 2 - Requests for Additional Information (RAIs) for Relief Request 11-SPT-1 (TAC No. MF2327and MF2328)

Please note the following official RAIs for the subject LAR. Please provide your responses within 30 days from the date of this e-mail.

REQUEST FOR ADDITIONAL INFORMATION
REQUEST FOR ALTERNATIVE 11-SPT-1 REGARDING PRESSURE RETAINING
BOUNDARY DURING SYSTEM LEAKAGE TEST
TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2
DOCKET NUMBERS 50-327 AND 50-328

By letter dated June 26, 2013, (Agencywide Documents Access and Management Systems (ADAMS) Accession No. ML13178A280), Tennessee Valley Authority (the licensee) submitted for the U.S. Nuclear Regulatory Commission (NRC) approval the request for alternative (RFA) 11-SPT-1. The licensee proposed an alternative to a certain requirement of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code (ASME Code), Section XI, (or hereafter called the Code). RFA 11-SPT-1 relates to the inservice inspection (ISI) requirement of IWB-5222(b) during system leakage tests at the Sequoyah Nuclear Plant (Sequoyah), Units 1 and 2.

The NRC staff has reviewed RFA 11-SPT-1 and requests the following additional information.

1. For justifications that the structural integrity or leak tightness of the subject components will be reasonably ensured without required extension in pressure retaining boundary during system leakage test, Section VI of RFA 11-SPT-1 states, in part,

“The proposed alternative testing methods would provide a level of assurance that the RCS pressure boundary is maintaining structural integrity at elevated pressure. Furthermore, the majority of welds encompassed by the boundaries described in Tables 1 through 4 falls into the population of welds that would be examined by the Risk Informed Inservice Inspection (RI-ISI) program. The RI-ISI program includes requirements for examinations that verify structural integrity of ASME Code Class 1 and 2 piping welds. During the 2nd and 3rd intervals at SQN, there have been 378 examinations performed on welds in the RI-ISI program, with no failures.”

- a. Provide discussions on whether there has been any industry or plant specific operating experience regarding potential degradation of the welded connections in the subject piping and components due to known degradation mechanisms that would lead to leakage.
- b. Identify which of the welds in Tables 1 through 4 that are included in the risk-informed inservice inspection program and which of those welds have been or will be examined in the current 10-year inspection interval.
- c. For the segments of piping for which relief is being requested, identify any pressure boundary leakage regardless of how it was identified (e.g. from the ASME Code, Section XI, Table IWB-2500-1, Category B-P pressure testing requirements, boric acid corrosion control program walkdowns, reactor restart walkdowns, etc.) during the current 10-year inservice inspection interval.

Siva P. Lingam
U.S. Nuclear Regulatory Commission
Project Manager (NRR/DORL/LPL2-2)
Sequoyah Nuclear Plant
St. Lucie Plant
Robinson Steam Electric Plant
Location: O8-D5; Mail Stop: O8-G9a
Telephone: 301-415-1564; Fax: 301-415-1222
E-mail address: siva.lingam@nrc.gov

Hearing Identifier: NRR_PMDA
Email Number: 815

Mail Envelope Properties (Siva.Lingam@nrc.gov20130826084200)

Subject: Sequoyah, Units 1 and 2 - Requests for Additional Information (RAIs) for Relief Request 11-SPT-1 (TAC No. MF2327and MF2328)
Sent Date: 8/26/2013 8:42:46 AM
Received Date: 8/26/2013 8:42:00 AM
From: Lingam, Siva

Created By: Siva.Lingam@nrc.gov

Recipients:

"Broaddus, Doug" <Doug.Broaddus@nrc.gov>

Tracking Status: None

"Lupold, Timothy" <Timothy.Lupold@nrc.gov>

Tracking Status: None

"Tsao, John" <John.Tsao@nrc.gov>

Tracking Status: None

"Rezai, Ali" <Ali.Rezai@nrc.gov>

Tracking Status: None

"Schrull, Edward D (edschrull@tva.gov)" <edschrull@tva.gov>

Tracking Status: None

"Mackaman, Clyde Douglas (cdmackaman@tva.gov)" <cdmackaman@tva.gov>

Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	3316	8/26/2013 8:42:00 AM

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received: