

Schroeder, Daniel

From: Manoly, Kamal *NRN*
Sent: Wednesday, April 28, 2010 2:15 PM
To: Tsao, John; Conte, Richard; Ennis, Rick; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; OHara, Timothy; Lupold, Timothy; Schulten, Carl; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Bowman, Eric; Miller, Barry; Schmidt, Wayne; Cahill, Christopher; Patnaik, Prakash
Cc: Lew, David; Clifford, James; Roberts, Darrell; Evans, Michele; Rosenberg, Stacey; Hiland, Patrick; Skeen, David
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

I agree with all the points in John's email.

From: Tsao, John *NRN*
Sent: Wednesday, April 28, 2010 8:31 AM
To: Conte, Richard; Ennis, Rick; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; OHara, Timothy; Lupold, Timothy; Manoly, Kamal; Schulten, Carl; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Bowman, Eric; Miller, Barry; Schmidt, Wayne; Cahill, Christopher; Patnaik, Prakash
Cc: Lew, David; Clifford, James; Roberts, Darrell; Evans, Michele; Rosenberg, Stacey
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

In Rick's summary below, Items 5 and 7 discuss that the licensee needs to demonstrate the structural integrity of the buried AFW piping at Salem Unit 2.

Questions--

1. How can the licensee demonstrate the structural integrity of a buried pipe without performing a pressure test or NDE.
2. To demonstrate the structural integrity of a piping system, the licensee can perform a stress analysis which requires pipe wall thickness. How can the licensee verify the pipe wall thickness without actual measurements giving the wall thinning issue in the unit 1 AFW pipe?
3. I understand that the licensee has measured pipe wall thickness at only one spot of the unit 2 AFW pipe and had performed some measurements in 1994? How many feet (or a percentage of the pipe length) of the buried AFW pipe that need to be measured for wall thickness and verified for proper coating before we have a reasonable assurance of its structural integrity?
4. How can the NRC staff verify the validity of the licensee's stress analysis if we and they do not know the unit 2 AFW pipe wall thickness?

John

From: Conte, Richard *RC*
Sent: Wednesday, April 28, 2010 7:32 AM
To: Ennis, Rick; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; OHara, Timothy; Lupold, Timothy; Tsao, John; Manoly, Kamal; Schulten, Carl; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Bowman, Eric; Miller, Barry; Schmidt, Wayne; Cahill, Christopher
Cc: Lew, David; Clifford, James; Roberts, Darrell
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

C/101

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From: Ennis, Rick

Sent: Wednesday, April 28, 2010 7:19 AM

To: Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; Conte, Richard; OHara, Timothy; Lupold, Timothy; Tsao, John; Manoly, Kamal; Schulten, Carl; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Bowman, Eric; Miller, Barry; Schmidt, Wayne; Cahill, Christopher

Subject: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

hmm

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↓
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- 1) The licensee has never performed the pressure testing required by paragraph IWA-5244 of Section XI of the ASME Code for the buried AFW piping. Technical Specification (TS) Surveillance Requirement (SR) 4.0.5 provides requirements regarding inservice inspection and inservice testing of ASME Code Class 1, 2, and 3 components. SR 4.0.5.d states that “[p]erformance of the above inservice inspection and testing activities shall be in addition to other specified Surveillance Requirements.” Therefore, the testing required by IWA-5244 is considered a TS surveillance requirement.
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Based on the TIA, PSEG’s use of SR 4.0.3 to justify a delay in performing a surveillance that never has been performed is contrary to the NRC staff’s current interpretation on use of SR 4.0.3.

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With the structural integrity of any ASME Code Class 3 component(s) not conforming to the above requirements, restore the structural integrity of the affected component(s) to within its limit or isolate the affected component(s) from service. OK

The above Action Statement has no time limit.

- 5) The licensee is currently evaluating the structural integrity of the Salem Unit 2 AFW buried piping. If the licensee concludes that the structural integrity is acceptable, then Salem Unit 2 would no longer be in Action c of LCO 3.4.11.1 (i.e., structural integrity would be restored in accordance with Action c). If the licensee concludes that the structural integrity is not acceptable, they would need to isolate the affected components from service in accordance with Action c. Isolation of the affected AFW piping would put them in the Action b in LCO 3.7.1.2 for two inoperable AFW pumps. [Region I, please confirm number of AFW trains that would be inoperable] This would result in a plant shutdown.
- 6) Failure to perform the testing required by IWA-5244 is a violation of ASME XI. The licensee would not need to submit a relief request if they are planning to do the test the next outage.
- 7) The licensee believes that the Salem Unit 2 AFW buried piping is in better condition than the Unit 1 piping. Region I will continue to review the licensee's efforts on these issues. The NRC staff is not aware of any information at this point indicating a lack of structural integrity for the Salem Unit 2 AFW buried piping.

Please let me know if you have any corrections or clarifications needs to the above summary.

Thanks,

Rick

Schroeder, Daniel

From: Lew, David *DL*
Sent: Thursday, April 29, 2010 12:20 PM
To: OHara, Timothy; Conte, Richard; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; Schmidt, Wayne; Cahill, Christopher
Cc: Clifford, James; Roberts, Darrell; Modes, Michael
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

Tim/Rich, Thanks! I appreciate you clearing up my confusion. Dave

From: OHara, Timothy *DL*
Sent: Wednesday, April 28, 2010 8:04 AM
To: Conte, Richard; Lew, David; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; Schmidt, Wayne; Cahill, Christopher
Cc: Clifford, James; Roberts, Darrell; Modes, Michael
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

Everyone,

Rich is correct about Class 3 in the area affected by the corrosion. AFW does become class 2 - downstream of the stop check valve before the piping joins to the Main Feed System. In Salem's ISI program the corroded piping is buried, class 3 piping which is safety related.

Tim OHara

From: Conte, Richard *DL*
Sent: Wednesday, April 28, 2010 7:45 AM
To: Lew, David; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; OHara, Timothy; Schmidt, Wayne; Cahill, Christopher
Cc: Clifford, James; Roberts, Darrell
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

Tim O'hara confirmed Class 3, doesn't interact directly with RCS pressure as does ECCS which is normally Class 2.

From: Lew, David *DL*
Sent: Wednesday, April 28, 2010 7:40 AM
To: Conte, Richard; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; OHara, Timothy; Schmidt, Wayne; Cahill, Christopher
Cc: Clifford, James; Roberts, Darrell
Subject: Re: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

Rich, Please confirm that AFW is Class 3 and not 2. Thanks. Dave

From: Conte, Richard
To: Ennis, Rick; Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; OHara, Timothy; Lupold, Timothy; Tsao, John; Manoly, Kamal; Schulten, Carl; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Bowman, Eric; Miller, Barry; Schmidt, Wayne; Cahill, Christopher
Cc: Lew, David; Clifford, James; Roberts, Darrell

Sent: Wed Apr 28 07:31:46 2010

Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping

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Thanks,

Rick

Schroeder, Daniel

From: Bowman, Eric
Sent: Wednesday, April 28, 2010 7:47 AM
To: Ennis, Rick; Schulten, Carl; McMurtray, Anthony
Cc: Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; Conte, Richard; OHara, Timothy; Lupold, Timothy; Tsao, John; Manoly, Kamal; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Miller, Barry; Schmidt, Wayne; Cahill, Christopher; Tingen, Steve
Subject: RE: Summary of 4/27/10 Internal NRC Call on Salem Unit 2 AFW Piping
Attachments: ML101100101.adc

Rick,

We just completed Clinton TIA 2010-001 on the application of SR 3.0.3 to inservice testing at Clinton. I've attached the ADAMS link for it. It might be worth sitting down with Carl Schulten to distinguish the situation here, where the IST requirements are still implemented as surveillance requirements, from the situation at Clinton.

Carl,

I took a really quick look at this; SR 4.0.5.c. at Salem specifically makes SR 4.0.2 applicable to frequencies for IST activities, but there is no mention of SR 4.0.3 applicability to IST activities. Based on our earlier discussions of custom TS implementations of SR 4.0.5, I had thought that both SR 4.0.2 and 4.0.3 would be applicable without the need for their SR 4.0.5.c. I don't plan to pursue this as it hasn't risen to being a TIA, but thought it was a bit odd and wanted to point it out. It also makes me wonder if SR 4.0.1 needs to be specifically implemented for SR 4.0.5.

Tony,

FYI for the implication of IST surveillance requirements in the custom TS.

Thanks!

Eric

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To: Burritt, Arthur; Cline, Leonard; Schroeder, Daniel; Balian, Harry; Conte, Richard; OHara, Timothy; Lupold, Timothy; Tsao, John; Manoly, Kamal; Schulten, Carl; Elliott, Robert; Chernoff, Harold; Nelson, Robert; Giitter, Joseph; Howe, Allen; Honcharik, Michelle; Bowman, Eric; Miller, Barry; Schmidt, Wayne; Cahill, Christopher
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