

Outside of Scope

**BRANCH 3
DAILY
STATUS**

Outside of Scope

4/9/10

Highlighted items were discussed at DRI/DRS Coordination meeting
BOLD items are new

Outside of Scope

SALEM ONE

Weekend Coverage: Harry/Dan

AL1=(9X)>0.07

AL2=(2of3)>0.11

AL3=(1X)>0.13

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AFW Piping Degradation

- Buried AFW piping to the 12 and 14 S/Gs appears to have significant degradation of the protective coating and piping. The preliminary guided wave inspection results indicate that the ASME Class 2 piping is degraded below min wall. The pipe is schedule 80 4" inside diameter carbon steel piping with a coal tar type coating that appears to have been hand applied. The piping run of concern involves about 150 ft of pipe that is buried at depths ranging from 4 ft adjacent to the out side of containment to 17 ft deep in a covered area adjacent to the containment.
- Licensee is assembling teams, making plans for excavation to conduct UT (the official test method accepted by NRC). Note (per DRS staff) guided wave is effective for long straight runs without valves and flanges and bends. UT is still the methodology of record to meet Code inspection requirements. Industry (EPRI) is in the process of building future mockup test facility in NC to qualify the guided wave technique, but for now guided wave technique is not a reliable indicator for some pipes in nuclear applications.

The residents walked the buried AFW pipe excavation down and observed standing water and four services. Followed-up with PSEG and learned the following:

- o Two excavations planned to complete the wave form coverage and to corroborate the first wave form test results with independent UTs. Current (back of the envelope calcs) indicate PSEG will be able to demonstrate operability with the current degradation of 35% of wall thickness (65% remaining). This Op Eval will probably rely on BOTH the strength of the remaining material and the lower pressures AFW would typically see. **The UT results confirmed the guided wave results. Engineering could not support operability of the piping through the next cycle. PSEG is planning to replace the affected section of piping. Engineering evaluating above or below ground installation and expects a decision will be made today (4/9). They expect two weeks to procure the piping and two weeks for the installation. This will add approximately two weeks to the outage(5/9).**

Information in this record was deleted in accordance with the Freedom of Information Act Exemptions: **FOIA 2010-0334**

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- EOC - Unit 2 has greater margin new plant is presumably in better condition; documentation exists that proves the piping was opened and inspected ~10 years ago and found to be in pristine condition; ISI code gives more allowance to an operating unit (they can take credit for up to 90% of the yield stress). **DRS has provided access to the information and will review. PSEG is currently evaluating need for inspections of the piping at Unit 2 and expects a decision to be made by Monday (4/12). On each unit there are three safety-related systems with buried piping (ASW, SW and ?).**
- **PSEG has begun evaluation of past operability for Unit 1; however, this is not considered a high priority based on the current operating condition.**
- **MC 0309.**

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Status Board Items:

- Salem AFW buried piping

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