

Ziev, Tracey

From: Burritt, Arthur *RT*
Sent: Monday, April 26, 2010 12:36 PM
To: Balian, Harry; Cline, Leonard; DeBoer, Joseph; Douglas, Christopher; Ennis, Rick; Johnson, Jonathan; Kern, Ludwig; Miller, Ed; Moore, Ross; Patel, Amar; Raymond, William; Schroeder, Daniel; Turilin, Andrey; Welling, Blake
Cc: OHara, Timothy; Conte, Richard; Cahill, Christopher
Subject: Branch 3 Status - 4/26/10
Attachments: B3-Status 4-26-10.doc

See attached

AFW issues

Why is Unit 2 Ok

Testing

- Confirm the PSEG risk assessment to delay AFW testing for 1 year is reasonable - Cahill
- Evaluate if performing a risk assessment to meet Technical Specification 4.0.5 is appropriate if a test was never performed verses missed - Conte

Operability

- Evaluate the Unit 2 AFW extent of condition operability assessment (focus on the differences between Unit 1 & 2) – Schroeder/O’Hara
- Confirm the finite element analysis for the Unit 1 as found condition is acceptable including the use of appropriate methods and assumptions – **Gray and O’Hara reviewed and did not identify any concerns; HQ review in progress**

What Needs to be Done Prior to Unit Startup

- Verify hydro/pressure test is code compliant – O’Hara
- Evaluate the 50.59 for AFW modifications – O’Hara
- Verify the ANI reviews and accepts repairs including testing – O’Hara
- Smart samples
 - Verify repairs to the control air system elbow that was replaced (how will PSEG certify the repair) – O’Hara
 - Verify control air pipe coating are repaired including at the support clamps (visual check of the as left condition) – **O’Hara determined that the repairs were performed and no concerns were identified**

D-70

OUT OF SCOPE

**BRANCH 3
DAILY
STATUS**

Outside of Scope

4/26/10

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

Outside of Scope

OUT OF SCOPE

OUT OF SCOPE

SALEM ONE

Weekend Coverage: Dan

AL1=(9X)>0.07

AL2=(2of3)>0.11

AL3=(1X)>0.13

Outside of Scope

AFW Piping Degradation

Background:

- Unit1 - PSEG identified significant piping and coating degradation for the buried AFW supply piping for 2 of the 4 steam generators. The pipe was schedule 80, 4" inside diameter, carbon steel piping with a protective coating. Based on preliminary UT measurements of the piping, engineering determined AFW system operability could not be assured through next operating cycle. Additional UT examinations were performed to evaluate the structural integrity of the pipe and to identify the sections of pipe that needed replacement. Based on these measurements, PSEG will replace all deep and shallow pipe on both the 12 and 14 headers. Following replacement of about 80 ft of shallow piping PSEG removed the supports for the piping that was not replaced and identified a section under a pipe support clamp that was well below minimum wall (.077). Subsequent UTs determined that the thickness measurement was the result of a localized pit. To fully evaluate the impact of the identified pipe degradation on the AFW system PSEG hired Structural Integrity Associates, Inc to complete a finite element analysis.

Extent of Condition:

- Unit 2 has greater margin – it is a newer plant and is presumably in better condition; documentation exists that proves the piping was opened and inspected ~16 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 reviewed photographs and

has no immediate safety concerns.

- Unit 2 – PSEG determined that they did not perform ASME code required pressure drop test for the buried sections of the 22 and 24 headers. Unit 2 entered a 24-hr shutdown action statement at 1132 on 4/21 for this condition. PSEG subsequently completed a risk analysis that determined that it is ok to extend the periodicity of the surveillance for 7 days.

AFW modifications (mode 3 hold) - still working 3 welds and 4 hangers in the fuel transfer building; pressure testing complete on the shallow AFW header, all coatings repaired including the control air lines and the trench has been backfilled.

NRC Next Steps:

Why is Unit 2 Ok

Testing

- Confirm the PSEG risk assessment to delay AFW testing is reasonable - Cahill
- Evaluate pressure drop testing resolution

Operability

- Evaluate the Unit 2 AFW extent of condition operability assessment (focus on the differences between Unit 1 & 2) – Schroeder/O'Hara
- Confirm the finite element analysis for the Unit 1 as found condition is acceptable including the use of appropriate methods and assumptions – Conte/O'Hara/HQ
- Confirm the technical evaluation that supports 1275 psig is bounding (including a faulted S/G scenario) – **complete no concerns**

What Needs to be Done Prior to Unit Startup

- Verify hydro/pressure test is code compliant – O'Hara
- Evaluate the 50.59 for AFW modifications – O'Hara
- Verify the ANI reviews and accepts repairs including testing – O'Hara
- Smart samples
 - Verify repairs to the control air system elbow that was replaced (how will PSEG certify the repair) – O'Hara
 - Verify control air pipe coating are repaired including at the support clamps (visual check of the as left condition) – O'Hara, **repairs acceptable**

Long Term Concerns

- AFW coating cure time acceptability
- PSEG determining the design life of the new coating

Information Needs

- Design records for as installed piping on Unit 1 & 2 (**found some records but have not found sign-off sheets saying that the coatings were applied**).
- Unit 1 AFW past operability assessment - **expect to provide by 4/26 am**
- Unit 1 AFW as found condition finite element analysis - **received on 4/23 at 1400 (still subject to utility and third party review)**
- Unit 2 AFW operability determination - **4/23 (1315) provided draft copy (still draft based on delays getting some**

Outside of Scope

Outside of Scope,

(b)(6)

Additional Items

Status Board Items:

- Salem 1, AFW buried piping (PRIORITY) – modifications and testing
- Salem 2 (PRIORITY) – T/S risk assessment for AFW testing; operability determination

Outside of Scope

Outside of Scope