Outside of Scope

BRANCH 3 DAILY STATUS		4/21/10

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

Outside of Scope

SALEM ONE	Weekend Coverage:	AL1=(9X)>0.07	AL2=(2of3)>0.11	AL3=(1X)>0.13

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AFW Piping Degradation

Background:

- 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

Information in this record was deleted in accordance with the Freedom of Information Act. Exemptions Outside Scope FOIA/PA 2010-0331

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. There were no similar inspections of Unit 1 AFW piping.

- On each unit there are three safety-related systems with buried piping (ASW, SW and control air)
    - Control air coating in tact, PSEG will document the inspection.
    - Control air small leak. PSEG cut out and replaced. Will evaluate the failure mechanism (believe it was repeatedly stepped on).
    - No previous UT inspections for service water piping, previously focused on seals for bell and spigot joints (as of end of outage all will have been replaced). Based on SW piping OE the current concern would be groundwater corrosion of the metal bands between concrete layers.

Questions and Concerns:

- Design change to support 1275 psig (may not perform analysis since all piping to be replaced)
- Unit 2 EOC (operability based on differences between Unit 1 & 2))
- Replacement plan and schedule

Information Needs - discussed during 4/19, 1315, status call - answers highlighted

- Finite element analysis (**have not received yet – expect this morning**)
- Past operability review for Unit 1 (**should be available shortly after the FEA received**)
- Operability determination for Unit 2 (**expect 4/22**)
- Design records for as installed piping on Unit 1 & 2 (not found as of yet, still looking)
- Previous ASME required flow or pressure drop tests for Units 1 & 2 (will follow-up)

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Additional Items

Status Board Items:

- Salem AFW buried piping (PRIORITY) – waiting on PSEG FEA and operability determination to enter MC 0309

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