Pre-Decisional Information -- Official Use Only HHELD FOR EXEMPTION

Oyster Creek License Renewal Commitments Inspection Exit Meeting - Dec 3, 2008

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Introductions

- NRC Region 1
- NRC HQ
- NRC Residents
- AmerGen
- NJ DEP (Observers)

Excellent Overall Cooperation

from everybody

>>> use of the Certrec Internet Database was quite helpful

- Pete Tamburro (LR Program Owner) Special Thanks
 - Chris Hawkins (NDE Level-III)
 - Cal Taylor & Jhansi Kandasamy

Tough Inspection Schedule & Difficult Inspection

LR outage tasks were a small part of a large outage, and were not critical path >>> we made no assessment of outage schedule or work control

- Outage schedule slippage pushed on-site inspection into a 2nd week
- Inspection follow-up to identified issues
 - Bay 11 Coating Blisters
 - Bay 3 Moisture Barrier Seal Problem
 - Cavity Leakage and Water Intrusion into 4 bays

Documentation Team Report 45 days after the Exit Meeting (mid Jan)

Exec Summary of Inspection Results

• Satisfactory Actions to evaluate primary containment structural integrity Rx3 • (b)(5) Monitoring of Sand Bed Drain Lines Strippable Coating to Prevent Water Intrusion Open Item -- Presents of Chlorine under epoxy coating << NRR is evaluating ズィら (b)(5) Sampled 9 AMPs to Verify Commitment Implementation • No Problems or Issues Identified, with Two/Three (??) Notable Exceptions (b)(5) (two items) Perform Full Scope inspections of sand bed region every other outage • Monitor drywell trenches every refueling outage, until trenches are restored Verified 2 commitment changes were done iaw Exelon commitment management program Bolting Integrity Program (commitment 12) • Rx Vessel Axial Weld Examination Relief Request (commitment 48) • Regarding §54.21(b) Annual Updates, you intend to submit your 2008 Amendment Update by Information in this record was deleted wi accordance with the Freedom of Information Act

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N/35 Page 1 of 5

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daily, and there was no un-identified or un-evaluated water intrusion into the gap between the drywell shell and the concrete shield wall during the time period when the line was inadvertently isolated.

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Page 3 of 5

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Open Item -- Presents of Chlorine under Epoxy Coating

NRR is evaluating whether the current condition of the coating, with small blisters, and with chlorine under the coating, has any impact on the NRC's previous assessment of AmerGen's aging management program for the drywell shell epoxy coating. In short, does the presence of chlorine, under the coating, constitute a new aging effect that was not previously evaluated?

We expect NRR to complete their assessment prior to the IR being issued. If not, then this item may be documented as an Unresolved Item (URI).

ANY QUESTIONS at this point

Inspection Observations

ASME IWE, Containment In-service Inspection

- D/W Inside UT Examinations
 - 41 separate 7x7 arrays and 7 separate 1x7 arrays evaluated (2058 separate UT readings)
 - No on-going corrosion or trend was identified
 - No statistically significant deviations from 2006 data values
 - Overall, not enough data sets to identify a corrosion trend, with any statistical certainty
 - Adequate margin for the 20 year extended period
- D/W External UT Examinations in the Sand Bed Region
 - 111 separate UT readings
 - Overall, not enough data sets to identify a corrosion trend, with any statistical certainty
 - 2008 data compared to 2006, shows a 1-2 mil decrease, well within the statistical variances
 - Adequate margin for the 20 year extended period
- · Leakage Monitoring of cavity drain and sand bed drains
 - Weaknesses as already discussed
 - Good poly bottle monitoring practices and log keeping
 - Good pro-active monitoring actions during cavity flood-up (continuous Ops monitoring)
 - · Good compensatory actions, when strippable coating de-laminated
 - Probably need to re-thing action levels, based on cavity drain leakage rates
- Cavity Strippable Coating
 - Weaknesses as already discussed
- Moisture Barrier Seal inside D/W (floor curb to shell)
 - Done as part of Structural Monitoring Program. No issues or problems identified.
 - Newly installed in 2006. Turned out to be an interference item to D/W UTs.
 - Commitment for post-EOP is per ASME Sec-XI IWE. We asked whether your Structural Monitoring examination satisfied IWE requirements. You initiated an engineering action item to evaluate this question.
- Moisture Barrier Seal inside Sand Bed Bays
 - Numerous deficiencies identified in 7 of 10 bays (none in 2006). All problems were repaired.
 - Moisture barrier function not impaired, no cracks or separation fully penetrated the seal
 - Surface cracks
 - Separation from shell or floor
 - Inadequate epoxy cure -- initial installation issue, from 1992

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Protective Coating Monitoring and Maintenance Program

- D/W Interior Service Level I Coating
 - Some minor issues identified. Documented results indicated a good quality inspection
- D/W Exterior Service Level II Coating, in Sand Bed Bays
 - Bay 11, one small 1/4 inch broken blister identified, with a 6" rust stain
 - During initial investigation, 3 smaller unbroken blisters also found
 - All 4 blisters were within a 1-2 inches square area, and all were thoroughly evaluated and fixed.
 - · Good extent of condition, 4 bays re-inspected by a different level-II
 - During follow-up, you identified a 2006 video that showed the same 6" rust stain
 - Estimated corrosion of ~ 3 mils, over a 16 year period
 - · No impact to D/W structural integrity, when compared to existing thickness margins

Electrical Cables and Connections

- Drywell Cable Inspections
 - Good attention to detail & good questioning attitude
 - Good engineering planning, prep, and participation
 - Excellent cooperation between work group and engineering

Inaccessible Medium Voltage Cables

- Cable Testing Auxiliary Transformer (bank 4)
 - Cable test done as part of transformer Doble Test
 - Some industry experience suggests that large transformer characteristics can de-sensitize the test results regarding cable insulation degradation

Buried Piping

- ESW Pipe Replacement and Tie-in
 - FME control and pipe handling (to protect pipe coating) adequate to ensure a quality installation

Structures Monitoring Program

- Intake tunnel and expansion joints
 - Good hand-offs between night-shift and day-shift engineering

One-Time Inspection Program

- Isolation Condenser Inspection and UT below the water line
 - Observed coatings inspection and UT data taking
 - Reviewed UT data evaluation

Periodic Inspection Program

- Condensate System expansion joint inspection
- · Fire barrier inspection inside a switchgear

Metal Fatigue Program

• At this point in time, not enough program usage to have resulted in a change to the high cumulative usage factor components List.

ANY QUESTIONS for US

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