

Thomas Hipschman

From: Stephen Campbell
Sent: Wednesday, June 03, 2009 9:33 AM
To: Thomas Hipschman; James Beall; William Orders; Richard Rasmussen
Cc: Bruce Mallett
Subject: FW: Oyster Creek Status,6/2
Attachments: OC well data as of May 27.pdf

Samples are taken of the affected monitoring wells around the CST and the Condensate Transfer Building, i.e., the Series 50 wells (MW-50, 51, 52...etc.) on a weekly basis. The latest well data pCi/l

MW-50 - 3.22 million
MW-51 - 3.72 million
MW-52 - MDA
MW-53 - close to MDA
MW- 54- 9,950 pCi/l
MW- 55 - 1.2 million (new well - initial undeveloped well)
MW-15 - 905,000 pCi/l

CST 9- Lysimeter - 4,100 pCi/l

Data supports that levels are decreasing and final conclusions on leakage stoppage will be based on planned exam of 1" CRD line (June 15, 2009)..

From: Ronald Nimitz
Sent: Wednesday, June 03, 2009 9:17 AM
To: John White; Sam Collins; Marc Dapas; Peter Wilson; Darrell Roberts
Cc: Nancy McNamara; Diane Screnci; Neil Sheehan; Jeffrey Kulp; Ronald Bellamy; Scott Barber; David Lew; James Clifford; Stephen Campbell; Eugene Dacus; David Decker; Undine Shoop; Jenny Weil; Kimberly Hawkins; Thomas Hipschman; Ed Miller; Keith Hoffman; Marc Ferdas
Subject: RE: Oyster Creek Status,6/2

The attached Map should be handled as "Security Sensitive Information" and distribution should be controlled..

This note provides updated information as of 6/2.

1. General time line update

- 1) 4/15 - leakage identified in ESW cable vault - NRC and State notified
- 2) 4/16 - Licensee issues press release regarding detection of tritium
- 3) 4/29 - Leak discovered in 10" carbon steel condensate pipe following placing condensate system in-service after repairs to 8" pipe and 'A' FW flush after maintenance. Additional guided wave testing performed. Site decision to replace "all" underground 8" and 10" pipe due to uncertainty in testing results.
- 4) 4/ 30 - Site issues press release informing public that leaks located and pipe replacement in-progress.
- 5) 5/2 - 8" and 10" inch pipe repair complete
- 6) **5/20 -Diving complete. 5//20 - internal CST inspection completed. No issues identified**
- 7) Area policed in preparation of stakeholder tour: 5/20/09-5/21/09
- 8) Repair of penetration at Turbine Building: 5/22/09
- 9) Tour of trenching: 5/22/09 - Licensee hosted external stakeholders
- 10) De-mob and clean-up of area: 5/26/09-5/29/09

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions
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- 11) Free release of material by Radiation protection -. 6/01/09-6/13/09
- 12) Backfill of trench: 6/1/09-6/5/09 - under way
- 13) Excavation of C.R.D. min flow line: 6/8/09-6/12/09 >> proposed on June 11 likely
- 14) Inspection of pipe by 6/15/09
- 15) Remove coating (contingent): 6/16/09
- 16) UT inspection (contingent): 6/17/09
- 17) Re-coat piping (contingent): 6/18/09-6/19/09
- 18) 6/19 - root cause report done
- 19) 6/22/09-6/26/09 - Backfill second excavation

Licensee now plans to finish up CRD min flow line on June 15, 2009

2. Well sampling/analysis

The licensee continues to sample its wells in accordance with its Adverse Condition Monitoring and Contingency Plan. Daily samples of the intake, discharge, and Route 9 bridge canal areas have not indicated any tritium concentration above minimum detectable activity.

The affected Monitoring Wells were last sampled on 5/27. The latest well map and data are attached. (INTERNAL ONLY) The analytical results are provided in the attached document along with previously reported data.

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Ex. 5

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The licensee has also sampled 3 wells across the canal (to the west) to ensure no tritium has been exiting to the west under canal. The three wells are W-1 (Cohansy), W-2C (Cohansy) and W-2K (Kirkwood). Wells MW-2C and MW-2K are north of Well MW-1 but off the figure. The results are to be used to support the conceptual model that the plume is unlikely to migrate under, and westward, past the canal system. **No tritium was detected in latest samples.**

The licensee has also sampled wells across route 9 (east of route 9 at intake canal) in the Kirkwood aquifer (well MW- 4k)(former Finninger's farm with results below MDA. In addition, normal sampling of environmental program wells (MW-24-3a and W-3C) also on the Finninger's farm show not tritium above MDA.

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The licensee installed an additional well on 5/26 (MW-55) just south of MW- 50 which allows them to perform a "pump test". This will allow for a better understanding of the plumes movement. Samples from this well on

May 27 indicate 1.2 million pCi/l. It is an undeveloped and is being viewed as a pump test well. The licensee is evaluating possible remediation efforts and this well will provide pump test data.

The licensee's geo-hydrology contractor has provided its hydrogeological assessment to Exelon. The NRC is reviewing the information.

The licensee has performed bounding dose calculations and identified dose to be a small fraction (<1%) of 10 CFR 50 Appendix I ALARA criteria.

Samples of intake, discharge canal as well as route 9 bridge (discharge canal) do not indicate tritium above MDA.

3. Pipe inspection status

The 1" CRD min flow line (CS-38) remains to be excavated and examined. Excavation is expected to commence upon restoration of the south trench area on 6/8. Exelon is expecting to have the CS-38 line excavated and examined by 6/15.

4. CST

The CST diving work has been completed with no indications of leakage identified. An NRC specialist Inspector was at the site on 5/19 to review the UT data and evaluate on-site efforts. The licensee will provide the NRC a copy of the CST final inspection report when it is completed.

5. Root cause analysis/pipe failure analysis

Exelon's root cause team has initiated its review and investigation of the circumstances surrounding the conditions that led to the ground water contamination, including, but not limited to: review of the licensee's activities associated with buried pipe, extent of condition, and radiological and environmental assessment of the conditions. The root cause assessment is expected to be complete about mid-June (6/19) and is expected to include analysis of the corrosion mechanism and cause that led to the failure of the 8" and 10" carbon steel buried pipes associated with the CST system.

To date, Exelon has not identified any other source of the ground water contamination. Efforts are in progress to complete buried piping examination in the area, i.e., excavation of the CS-38 1" pipe (as previously discussed); and Exelon is continuing frequent evaluation of ground water monitoring locations to confirm that natural attenuation is occurring, as would be expected if the source of ground water contamination as terminated. Exelon is continuing data collection and assessment to support a conclusion in this matter.

6. Communications

The licensee is continuing to maintain dialogue with various stakeholders. An onsite tour was conducted with various local government officials on Friday (5/22). The tour involved a discussion of the tritium issue (event history, actions taken, health aspects) and a tour of the excavation area.

The tour group consisted of various stake holders (e.g., Lacey Municipal Utilities Authority executives, Ocean County Health Dept executives, Mayor Lacey Township, Lacey Township Administrator, Lacey Township Committeeman, Lacey Township Board Member, and NJ State Assemblyman (9th District) and staffer).

Region I has been addressing questions and interest expressed by some local media in the area.

7. NRC actions

NRC Region I staff specialists and residents continue to follow this issue closely. Region I's Annual Assessment Meeting for Oyster Creek was held 5/28; and the staff prepared for questions in this area. NRC inspection is still on-going and will complete upon review and evaluation of Exelon's Root Cause Assessment, which is expected to be available mid-June, 2009.

8. New Jersey-Department of Environmental Protection.

Representatives from NJ-DEP continue to follow issue. NJ DEP has been collecting and analyzing split samples with the licensee. NJ results have been comparable to the licensee's.

NJDEP has posted its split sampling results from Oyster Creek on its website at <http://www.state.nj.us/dep/rpp/bne/FinalOCH3.htm>

End

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