Exelon Generation Company, LLC
Dresden Nuclear Power Station
6500 North Dresden Road
Morris, IL 60450-9765

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Exelon Nuclear

July 6, 2009

SVPLTR: #09-0027

U. S. Nuclear Regulatory Commission
ATTN: NRC Region III Administrator
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Dresden Nuclear Power Station, Units 2 and 3
Renewed Facility Operating License Nos. DPR-19 and DPR-25
NRC Docket Nos. 50-237 and 50-249

Subject: Written Follow up Report on Release of Radionuclide

Reference: Nuclear Energy Institute NEI 07-07, "Industry Ground Water Protection Initiative- Final Guidance Document," dated August 2007

This written report is submitted as a follow up to a notification to the NRC Region III staff that it had found elevated levels of tritium in a storm sewer during routine sampling of onsite monitoring locations at Dresden Nuclear Generating Station (DNPS). Subsequent troubleshooting identified the source of the tritium as coming from a small leak in a 4-inch pipe located in a pipe trench between the Unit 1 condensate storage tank, the Unit 2/3 reactor building, and the Unit 2/3 condensate storage tanks. The leak has since been repaired. Initial troubleshooting of other lines in the area is complete and no other underground leaks have been identified.

The principle radionuclide released was tritium. This notification is being reported in accordance with the Exelon Reportability Manual and Objective 2.3, "Thirty-Day Reports," of the referenced document.

Potential mitigating actions, for other susceptible piping in the same pipe trench are being formulated.

This release will be included in the 2009 Radioactive Effluent Release Report for DNPS.

RECEIVED JUL 1 5 2009

If you have any questions regarding this matter, please contact Mr. Stephen Taylor, Regulatory Assurance Manager at [redacted]

Respectfully,

Shane Marth
for

Tim Hanley
Site Vice President
Dresden Nuclear Power Station

Attachment: Industry Groundwater Protection Initiative (GPI) Voluntary Communication

cc: NRC Senior Resident Inspector, Dresden Nuclear Power Station
Bill Buscher, IEPA
Cecil Settles, IEMA

ATTACHMENT

INDUSTRY GROUNDWATER PROTECTION INITIATIVE (GPI) VOLUNTARY COMMUNICATION

INDUSTRY GROUNDWATER PROTECTION INITIATIVE (GPI)
VOLUNTARY COMMUNICATION

1. This thirty-day report is being made in support of NEI 07-07 (Final), Industry Ground Water Protection Initiative - Final Guidance Document (August 2007), Objective 2.3

2. Station Name: Dresden Nuclear Power Station

3. Station Address: 6500 North Dresden Road, Morris, Illinois, 60450

4. Date and Time of Spill / Leak or Sample Result(s): June 6, 2009 at 0130

5. Specific Location of Release or Sample Result(s): Between Unit 1 Condensate Storage Tank and the Unit 2 Reactor Building

6. Source of the Spill / Leak (if known): The source of the leak is a 1/32" diameter corrosion pit in 2/3-4323-4"-K, which is an underground pipe used to fill the Unit 1 Condensate Storage Tank (CST) from the Make Up Demineralizer.

7. Is the leak stopped and the spill contained? The leak was stopped on June 19, 2009 when the leaking pipe was isolated and drained. Groundwater contaminated by the leak is being collected in the leak repair site excavation for processing and discharge.

8. List of verified radionuclide contaminant concentrations (in pCi/L) in material released:

Tritium (H-3)	3.04E+06	pCi/L
Mn-54	9.03E+01	pCi/L
Co-60	2.04e+02	pCi/L

9. Estimate of the potential or bounding annual dose to a member of the public, if available at this time: The majority of the release remains contained in the groundwater within the plant boundary. Therefore, the maximum possible hypothetical dose resulting from this release is well below the limitations specified in the DNPS Offsite Dose Calculation Manual. This would be true even assuming a batch liquid effluent release directly to the river over a three month period.

10. Actions already taken in response to containing and mitigating the release and a general description of future actions: The leak was stopped on June 19, 2009 when the leaking pipe was isolated and drained. Groundwater from the excavation site is being collected, processed and released, using the plant radwaste processing systems. No other mitigating actions are planned.

11. Estimated time / date station will provide additional information or follow-up: Additional information will be provided in the event other leaks are discovered. Otherwise, release information will be provided in the 2009 Annual Radioactive Effluent Release Report.

12. Name of Individual Making Report: Tim Hanley Telephone No. [redacted]

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