

Dresden 2004/2006 Tritium Leaks

Chronology of Events

2004 TRITIUM LEAK

August 31, 2004

- Dresden Station personnel discovered a small leak in an underground water pipe leading from reactor Unit 2/3's safety system to an onsite holding tank. Groundwater monitoring around the leak showed localized elevated levels of tritium.
- Indications point to a leak in the station's HPCI system.

September 3, 2004

- Dresden distributes *Instant Illuminator (News Flash)* on tritium leak to station employees.

September 4, 2004

- Valves shut to isolate leak.

September 16, 2004

- Dresden conducts special briefing with all workers (both Exelon and contractors) on key activities, including the onsite tritium leak.

September 27, 2004

- Dresden issues contract to RETEC to conduct groundwater assessment.

October 6, 2004

- Integrated Issue Management Team completes Draft Report.

October 15, 2004

- Exelon Nuclear issues news release on tritium leak in response to media information disseminated by the Union of Concerned Scientists on the leak at Dresden.
- Calls made to local municipalities to inform them of the leak and the distribution of the press release.

October 20, 2004

- Workers at Dresden place 2 bladders in the CST-to-HPCI pipe.

November 6, 2004

- The repaired section of piping is "pipe tight" and work begins to refill the excavation site and return the line to service.

November 10, 2004

- Exelon Nuclear conducts briefing meeting with IEPA Director and staff regarding the events and plans for the pipe repair and groundwater investigation.

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November 11, 2004

- Dresden distributes Instant Illuminator (News Flash) to station employees updating them on leak repair progress and notifying them of our plan to test neighbors' drinking water wells.

November 12, 2004

- Communications and Chemistry employees hand deliver information on tritium leak to 39 homes in neighborhood immediately south of the station and request permission to sample their drinking water wells. An invitation to a special meeting is also included in the information packet.

November 17, 2004

- Dresden holds meeting with neighbors to discuss station activities, including status of the tritium leak and repairs. 21 individuals from 9 residences attend. Representatives from IEPA and IDPH are also present to answer questions.

November 29, 2004

- Dresden's HPCI system is returned to service.

November 30, 2004

- Dresden mails 14 letters to local residents who reside elsewhere during the winter months asking for permission to sample their wells.

December 10, 2004

- IEPA, IEMA, IDPH Project Update Meeting held in Springfield.

July 8, 2005

- Dresden mails follow-up letter to local residents who have not yet had their wells sampled.

August 22, 2005

- Groundwater Tritium Project Update provided to IEPA in Springfield. Reported that the following work has been completed:
 - Monitored groundwater elevations.
 - Sampled storm sewers and monitoring wells for tritium.
 - Installed 3 clusters of 3 monitoring wells to define the site stratigraphy and to provide additional sampling points.
 - Established permeability of geologic units.
 - Established groundwater contours.
- Defined migration pathway resulting in measurable levels of tritium in residential wells.

October 4, 2005

- Dresden invites neighbors to State of the Plant Meeting scheduled for October 18, 2005.

October 18, 2005

- **11 neighbors attend the State of the Plant Meeting. An update on the tritium issue is provided and questions are answered.**