



Groundwater  
Contamination (Tritium)  
at Nuclear Power Plants

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## Plant Sites with Groundwater Contamination

Recent events at several nuclear power plants have highlighted a concern with tritium contamination of groundwater, as a result of unplanned releases, such as those due to equipment degradation. For example, at the Indian Point nuclear power plant, unintended releases of tritium through a crack in the spent fuel pool concrete support wall may have been the cause of the elevated levels of tritium in groundwater in the area immediately surrounding the plant's spent fuel pool. In another instance, at the Braidwood nuclear power plant, unintended releases of tritium from a number of vacuum breaker valves at the plant caused elevated levels of tritium in groundwater in unrestricted, public areas.

*Some links on this page are to documents in our Agencywide Documents Access and Management System (ADAMS). ADAMS documents are provided in either Adobe Portable Document Format (PDF) or Tagged Image File Format (TIFF). To obtain free viewers for displaying these formats, see our plugins, viewers, and other tools. If you have questions about search techniques or problems with viewing or printing documents please contact the Public Document Room staff.*

- [Indian Point](#)
  - [Annual Radiological Environmental Operating Report for 2005](#)
  - [2005 Annual Radioactive Effluent Release Report](#)
  - [Monitoring Well MW-111 Tritium 30 Day Special Report](#)
  - [Offsite Dose Calculation Manual, Rev. 9](#)
  - [NRC Special Inspection Report No. 05000247/2005011](#)
- [Braidwood](#)
  - [NRC - Re: Resumption of Liquid Radioactive Discharges Through the Braidwood Circulating Water Blowdown Line](#)
  - [Exelon - Re: Resumption of Liquid Radioactive Discharges Through Blowdown Line](#)
  - [Preliminary Notification PNO-III-06-020](#)
  - [Braidwood Nuclear Power Plant, Units 1 and 2; Final Significance Determination for a White Finding and Notice of Violation](#)
  - [NRC Baseline Inspection Report No. 05000457/2006008](#)
  - [2005 Radioactive Effluent Release Report](#)
  - [Groundwater Tritium Interim Remediation](#)
  - [Preliminary Notification PNO-III-06-011](#)
  - [Preliminary Notification PNO-III-06-007](#)
  - [Preliminary Notification PNO-III-05-016D](#)
  - [NRC Region III Tritium Inspection Activities](#)
  - [Tritium Contamination Questions and Answers](#)
- [Callaway](#)
  - [Preliminary Notification PNO-IV-06-009](#)
- [Dresden](#)
  - [Preliminary Notification PNO-III-06-004](#)
  - [NRC Region III Tritium Inspection Activities](#)
- [Byron](#)
  - [Preliminary Notification PNO-III-06-004B](#)
  - [NRC Region III Tritium Inspection Activities](#)
- [Palo Verde](#)
  - [Event Notification Report 42381](#)
  - [Preliminary Notification PNO-IV-06-001](#)

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