

From: John House <sup>23</sup>  
To: Steven Orth  
Date: 2/9/06 4:04PM  
Subject: Braidwood Tritium Chronology

Steve:

This is what I have gleaned from the files I have. Nick may have some notes that we could use. Since this is a chronology, do we need to explain our approach in this issue?

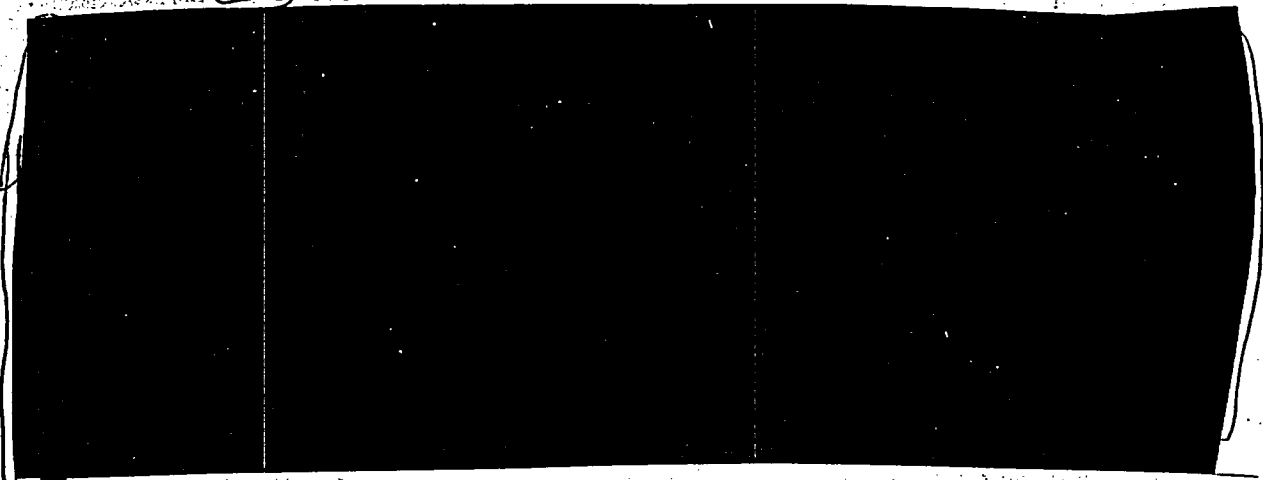
John

Information in this record was deleted  
in accordance with the Freedom of Information  
Act, exemptions 5) outside scope  
FOIA- 2006-0115

6-137

Chronology of [redacted] and 2000 Circulation Water Blowdown Line Vacuum Breaker Leaks

*Outside scope*



**2000 Leak:** On November 6, 2000, vacuum breaker OCW136 was discovered leaking, following a report from a local resident of water in a ditch adjacent to his property. The breaker had been leaking for several days. Tritium was found the water contained in the ditch along Smiley road.



Licensee Root Cause Analysis AT # 382237 was completed on December 5, 2000.

Routine NRC inspection (REMP) conducted January 8-11, 2001.



The licensee's Annual Effluent Report for 2000 (issued April 2001) noted the leak as an abnormal release.

During June 2001, a routine Effluents inspection was performed.



On April 1, 2005 the licensee documented in AR-328451 that two water samples taken onsite at the downstream side of the culvert at the old A entrance gate had tritium levels of 539 and 582 pCi/L.

During the April - May, 2005 time frame, the licensee established a ground water monitoring program (onsite at first, then extended it offsite) to determine the extent of tritium contamination of the ground water.

On November 30, 2005 the licensee notified the NRC that onsite groundwater samples showed evidence of tritium contamination.

In December 2005, the NRC initiated an inspection to evaluate the licensee's actions and to determine if the tritium contamination of the groundwater constituted a health and safety issue.