

From: Steven Orth <sup>13</sup>  
 To: scott.butler@exeloncorp.com  
 Date: 2/9/06 7:02AM  
 Subject: RE: Will County Board Meeting on Thursday

Scott,

We have been discussing the issue with one of our hydrologists in NRC headquarters. We'd like to have a discussion between your hydrologist and ours. Can we arrange for a conference call on Thursday, February 16 am with your hydrologist?

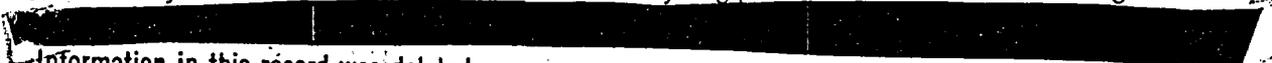
Thank you,

Steven Orth  
US NRC

>>> <scott.butler@exeloncorp.com> 02/08/06 5:02 PM >>>

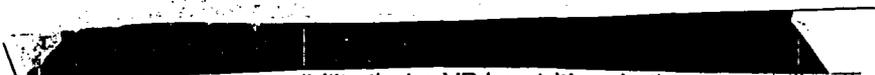
Steve/John/Nick - here is a run down of items asked of me in the past day or so. I am sending it to you all so all are aware of the info as this is overlapping between the Residents and the Region.

1. Leak on the west side of the turbine Building - I am looking for an IR to see if one was written. If not, we will generate one.
2. Any plans of sampling from the CST (Condensate Storage Tanks) - the elevated tritium on the west side of the Turbine Building was identified in ground water leaking into the Turbine Building and elevated levels were seen in one well (~2200 Pci/L). Three wells were drilled - 1 north of the CSTs, one east of the 1st one drilled and the last east of the 1st two (just north of the northwest corner of the Unit 2 Turbine Building). All of these three well samples have not been above background. The water flow in the area is to the north. Therefore, any leaks that would have occurred should have shown up in these wells.
3. The 1996 leak occurred on December 1, 1996. It is documented on Work Order 96111970. No PIF (equivalent of today's Issue Report) could be found. That would have been an acceptable practice at the time as equipment problems were captured in Work Requests (and occasionally in PIFs).
4. A copy of the acoustic testing results was provided to Nick this afternoon. This was the testing results performed on the blowdown line.
5. Of the few people I talked with, no one was aware of any aerial flights that were performed of the blowdown line in 2003. No one was also aware of any flights that identified any leaks from VB-4 or VB-7 in that timeframe.
6. John and Steve - your ENTRANCE was moved back to 1030 on Monday.
7. Vacuum Breaker #4 had a leak on 8/20/03 - this is documented in IRs 173204, 175241 and 172376. VB-4 was repaired under WO 99243232-01. This repaired the main seat leakage. After the repair, minor leakage (20 - 40 drops per minute) were still occurring. This leak was repaired under task 03 of the same Work Order.
8. VB-7 - prior to a blowdown booster pump modification (installed in 2003 to increase blowdown for lake chemistry control), this valve operated in the open position due to pressure in the line. After the increase in blowdown flow, this VB started cycling. The engineers noted it cycled approximately every 5 minutes and released about 8 ounces of water every 5 minutes as it cycled. This equates to approximately .013 GPM. There have not been any failures on this VB. An engineering analysis was performed to approximate the average curie content and the approximate maximum of curies potentially discharged from this "release". These are only extreme approximations. One well north of this VB had a sample with ~2200 Pci/L in the sample. This is the only data point of the wells drilled that showed levels above background. Wells are being installed south of the VB but are not expected to yield above background results. The team has not been able to characterize any plume due to the single existing data point.
9. Only VB-6 and VB-7 have been noted to be cycling per direct observation of the engineer.



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*Out of  
 scope  
 Ex 6*  
**G-135**



*Outside Scope*

- 11. Is there a possibility that a VB has tritium in the ground directly below the VB? Yes and No - It could be there. However, due to groundwater movement, the sample wells drilled would have been expected to have identified this. Engineering analyses showed that water with 90,000 PCi of tritium at a leak of 1 GPM would move 985 feet (travel of the plume) in 26 years until it was less than or equal to the background level.
- 12. VB-4 leaks are also documented in IRs 440340 (elevated Tritium) and 448107 (Tritium in groundwater)
- 13. VB-7 leak (elevated tritium) identified in IR 437172.

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CC: John Cassidy; Nirodh Shah