

From: Steven Orth *SO*
To: Mahesh Chawla
Date: Wed, Jan 25, 2006 8:55 AM
Subject: Fwd: Draft Presentation for Braidwood Residents

As promised.

E-96

From: <Lisa.Serritella2@exeloncorp.com>
To: <Bill.Buscher@epa.state.il.us>, <Amy.Zimmer@epa.state.il.us>, <Carol.Fuller@epa.state.il.us>, <Kurt.Neibergall@epa.state.il.us>, <Rick.Cobb@epa.state.il.us>, <Marcia.Willhite@epa.state.il.us>, <GFlentge@idph.state.il.us>, <JOconnor@idph.state.il.us>, <KRunkle@idph.state.il.us>, <R_Allen@iema.state.il.us>, <Jeffery.Roman@exeloncorp.com>, <rml2@nrc.gov>, <sko@nrc.gov>
Date: Mon, Jan 23, 2006 9:15 AM
Subject: Draft Presentation for Braidwood Residents

Attached is the latest draft of the presentation material for the resident update meeting at Braidwood on Thursday, Jan. 26, 2006.

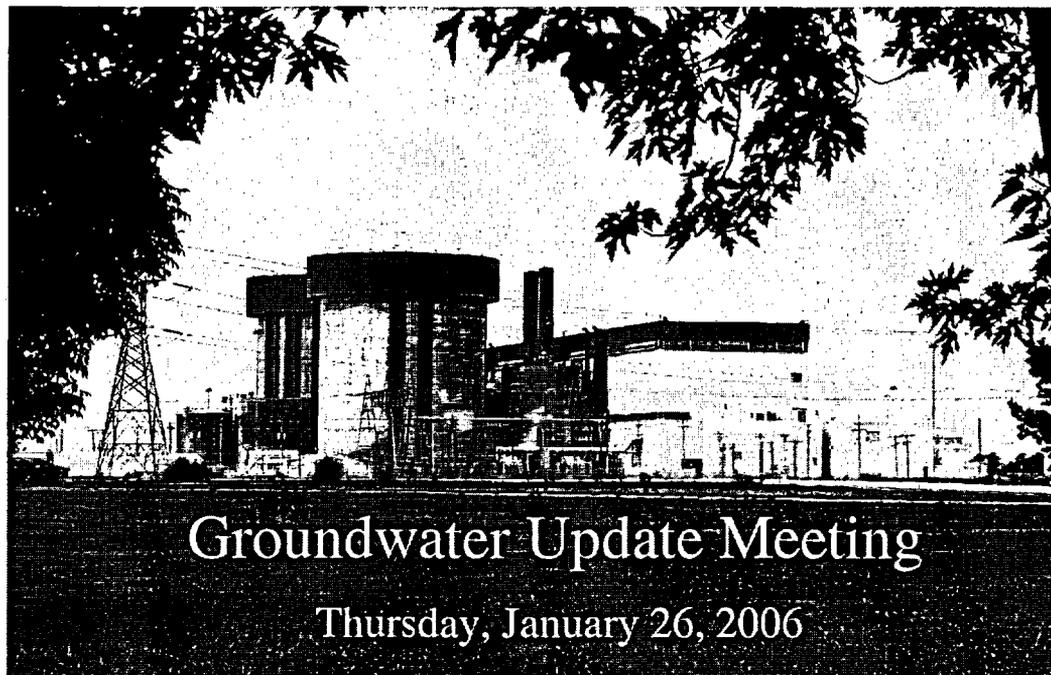
Ken Ainger will be discussing the recent status of the tritium project, Exelon's corrective actions to stop the release, its actions to prevent future releases and plans for remediation this afternoon in Springfield.

<<Resident Groundwater Update Presentation 1 26 2006.ppt>>

 This e-mail and any of its attachments may contain Exelon Corporation proprietary information, which is privileged, confidential, or subject to copyright belonging to the Exelon Corporation family of Companies. This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout. Thank You.

Exelon.
Nuclear

Braidwood Generating Station



Exelon.

What You Will Hear

Updated status

What Exelon is doing to:

Stop the problem now

Prevent future releases

Clean up

Eli Port, health physicist

Exelon.

Current Status

14 of 15 private wells show no sign of tritium beyond background

15th private well shows tritium at fraction of federal drinking water limit (1,524 picocuries per liter)

Health and safety impact of these elevated levels is insignificant

1/26/2006

Groundwater Update

2

Exelon.

Update

Sampled 158 test wells

Analyzed 211 groundwater samples

11 off-site sample wells tested above federal drinking limit for tritium (20,000 pCi/L)

No additional radionuclides found in groundwater

Exelon.

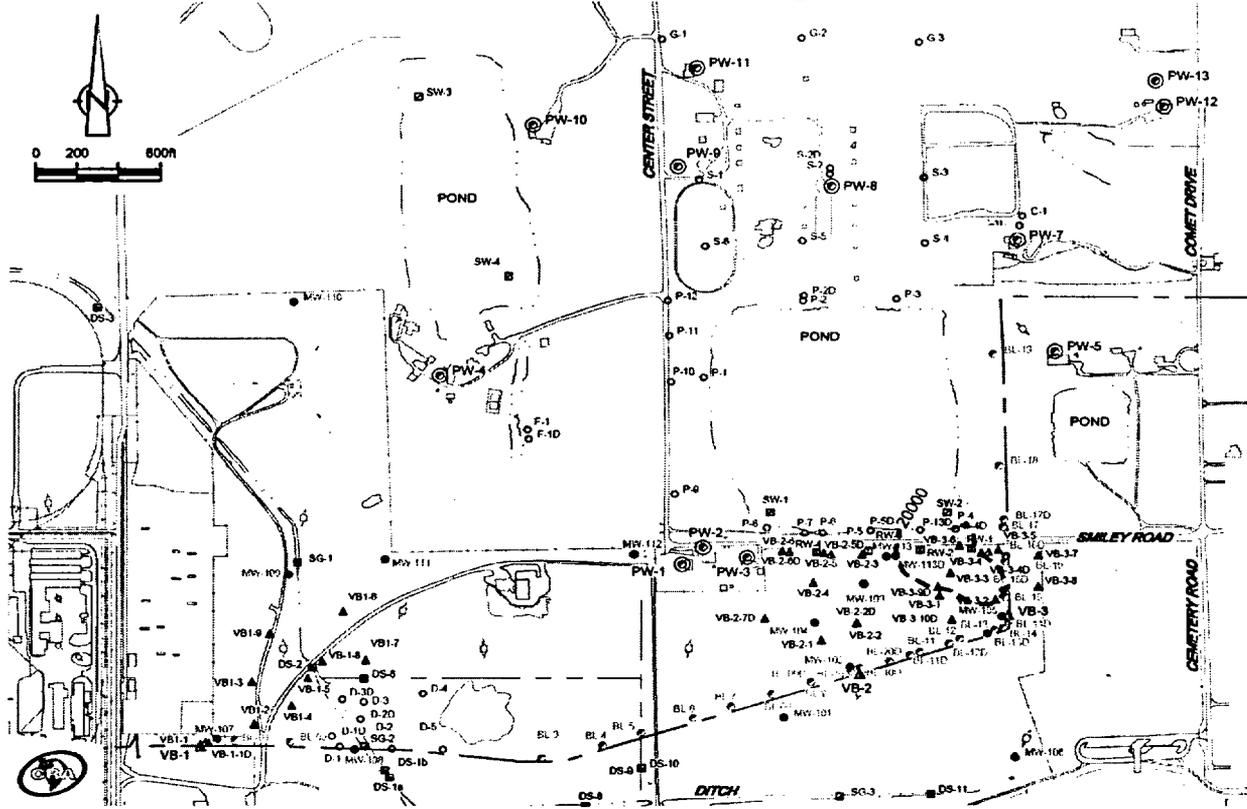
Update

Acoustical pipe integrity testing provided assurance of no significant leak in pipe

Sunday, Jan. 15, 2006 leak at vacuum breaker 7

Have not introduced tritium into the pipe since Nov. 23

Area Above 20,000 pCi/L

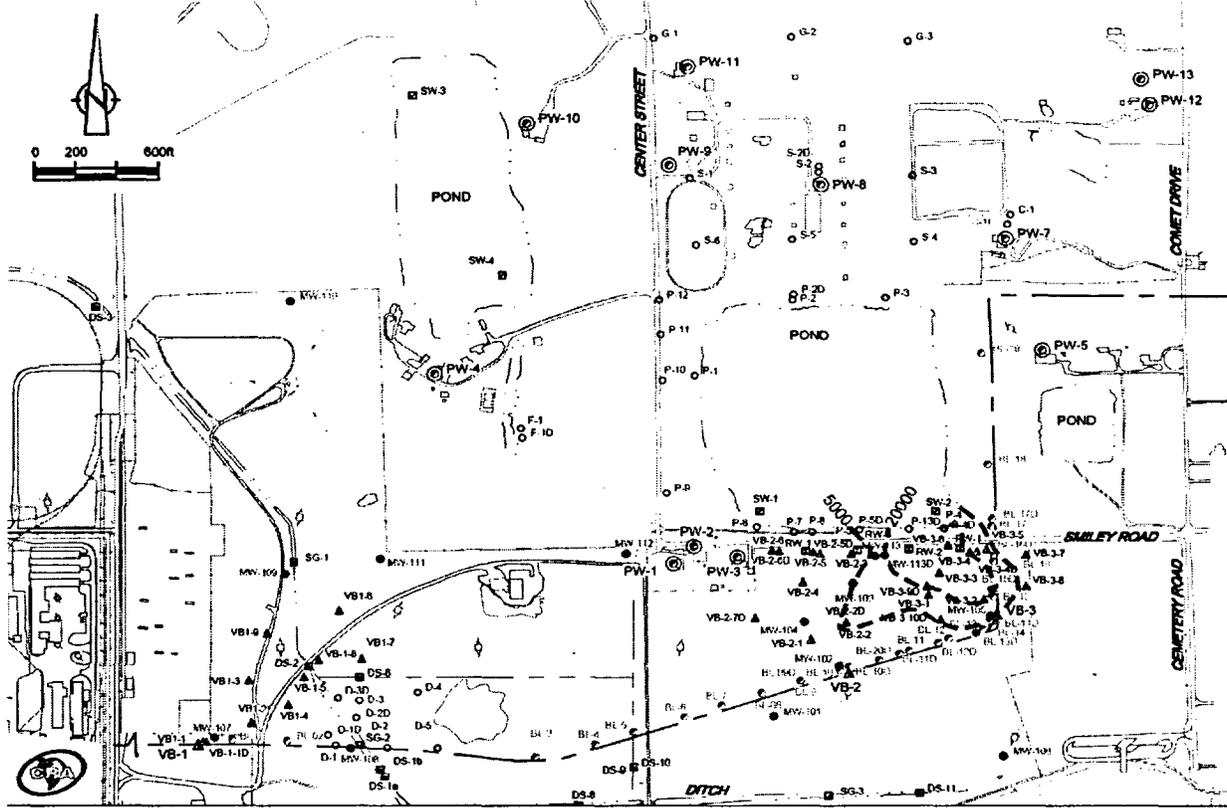


1/26/2006

Groundwater Update

4

Area Above 5,000 pCi/L

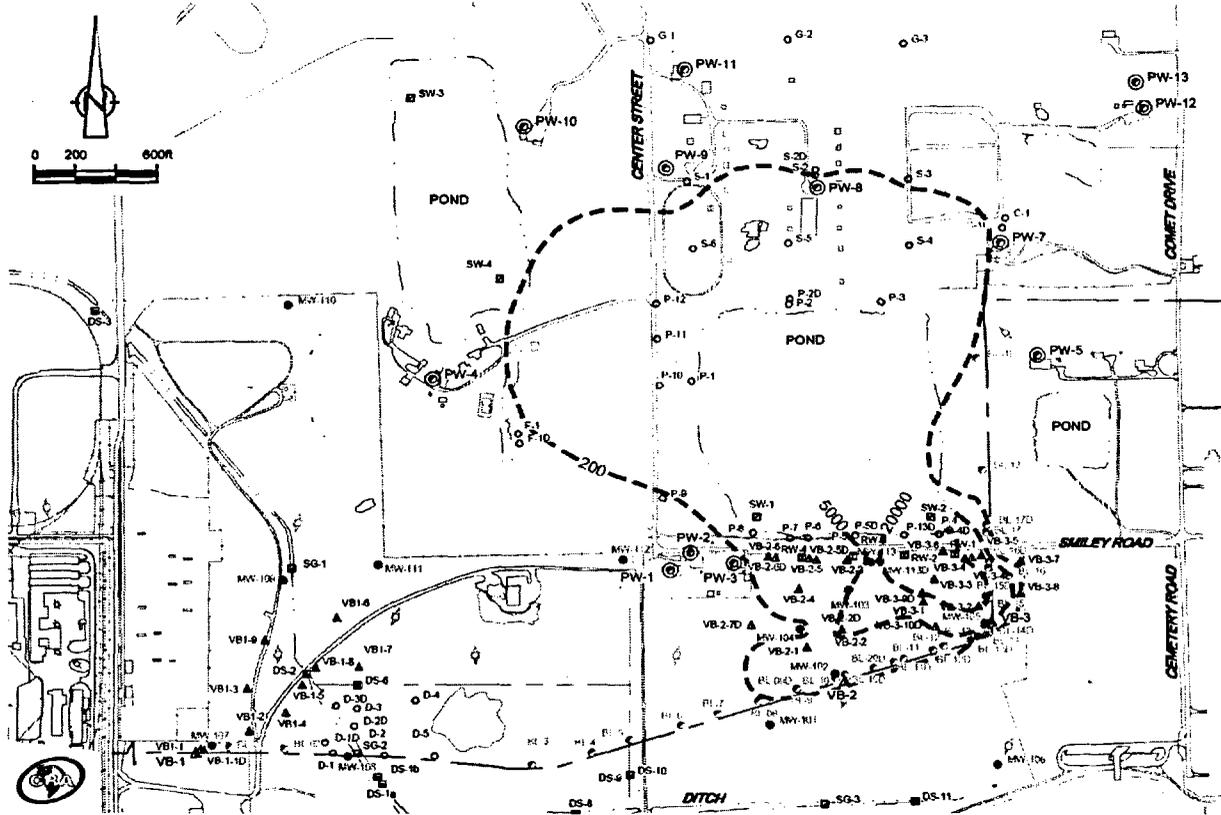


1/26/2006

Groundwater Update

5

Area Above Background—200 pCi/L



1/26/2006

Groundwater Update

6

Exelon.

1998

- Release from blowdown line vacuum breaker
- Contained on site property
- Treated as a water spill, not as a tritiated water spill
- Inadequate response

Exelon.

2000

Leak from blowdown line vacuum breaker
Contained on site property
Sampled and removed surface water

Responses to water spills were inadequate due
to a lack of integrated procedural guidance

Exelon.

Lessons Learned

To prevent vacuum breaker failures

Replaced vacuum breakers

Increased surveillance program

Exploring additional leak detection devices

Looking to take vacuum breakers out of play

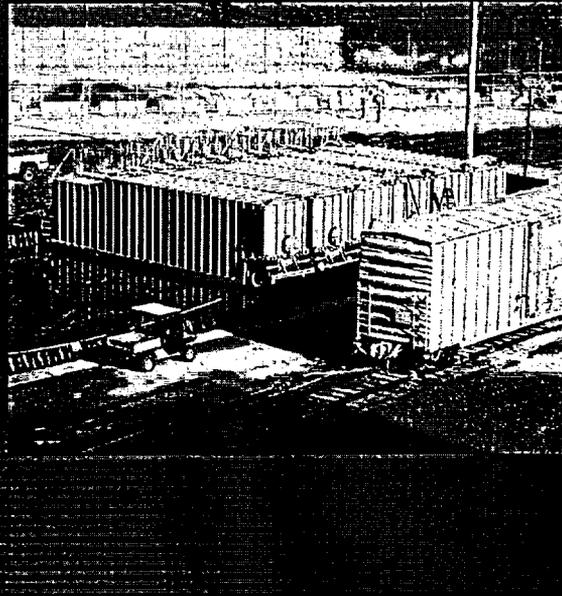
Exelon.

How We are Stopping the Problem

No tritiated water released into the ground since Nov. 23

Currently storing 80,000 gallons

Short term: Continue to store as needed



Exelon

Preventing Future Releases

Enhanced surveillance and monitoring maintenance

Vacuum breaker inspection twice per year

Preventative maintenance

Alternative release path

Installing separate double-walled, stainless steel pipe

Reduce releases by recycling water

Evaporate water that is not recycled

Improve response of possible future releases

Exelon.

Clean Up

Site Investigation Report

Alternatives:

Containment

- slurry wall
- vegetation

Collection/Treatment

- Pump and treat
- Freeze and remove

IN-SITU

Spray Field

No action

Monitoring

Alternative water supply

Exelon.

- No additional tritium being introduced
- No future releases until pipe integrity is assured
- Drinking water levels well below federal standards; insignificant health risk
- Monitoring to ensure no additional wells affected
- Continual communication

Exelon.

Questions?

1/26/2006

Groundwater Update

13