

Shaeffer, Scott

From: Nielsen, Adam *AD*
Sent: Monday, April 26, 2010 6:16 PM
To: Bonser, Brian
Cc: Morris, Eddie; Niebaum, Phillip; Shaeffer, Scott
Subject: Tritium in Hatch "Pullbox"
Attachments: Hatch_Pullbox_Tritium.PDF

I talked to the Chemistry manager and got more info.

On 4/21 a quarterly sample was taken from pullbox PB2AU (near the U2 CST) and 316,870 pCi/L tritium was discovered. The previous quarterly sample showed 2,390 pCi/L. This is the same pullbox that had a 900,000 pCi/L spike in 2008. In 2008, PB2AU was the first PB to see tritium, but then it migrated through the underground conduit to the other PBs (see attached diagram). The theory is that leaks in the CST moat get transferred into this PB conduit system, so it wouldn't be surprising to see the other PBs spike up in the near future (they are currently reading background levels). When water is pumped out of the PBs, it is routed to a decon sink (radwaste).

Two leaking valves (2P11FO23 and 2P11FO92) were found inside the transfer pump moat of the U2 CST. Samples taken of standing water inside the moat ranged from 3,610 pCi/L to 900,000 pCi/L, but they have had some rain recently, so these numbers may be diluted. A CR has been written and actions are being taken to repair the leaks and investigate the transfer mechanism from the moat to the PBs.

The licensee made contact with the State of GA EPD, NEI, and ANI, per their NEI GPI voluntary initiative requirements. Currently, they have no intention of issuing an official Part 50 report. This is acceptable per their communication procedure, however several licensees in RII have issued 50.72 reports concurrent with their voluntary reporting.

FYI - I will be at Hatch the week of May 17 to perform the Groundwater TI.

Adam

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