

Power Reactor	Event Number: 45820
Facility: BROWNS FERRY Region: 2 State: AL Unit: [1] [2] [3] RX Type: [1] GE-4,[2] GE-4,[3] GE-4 NRC Notified By: RAY SWAFFORD HQ OPS Officer: PETE SNYDER	Notification Date: 04/07/2010 Notification Time: 20:28 [ET] Event Date: 04/07/2010 Event Time: 16:10 [CDT] Last Update Date: 04/07/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(2)(xi) - OFFSITE NOTIFICATION	Person (Organization): JAY HENSON (R2DO )

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation
3	N	N	0	Startup	0	Startup

**Event Text**

**SPILL OF WATER CONTAINING TRITIUM**

"Browns Ferry Nuclear Plant (BFN) is notifying state and local agencies of a spill of water containing tritium as specified in section 2.2.a.iii, of Nuclear Energy Institute document NEI 07-07 entitled 'Industry Groundwater Protection Initiative.' On April 7, 2010 from 02:30 to 03:00, BFN operations personnel were transferring water from one Condensate Storage Tank (CST 3) to another Condensate Storage Tank (CST 5). At 08:25, an operator conducting rounds noticed water flowing from an open test valve near the top of CST 5. The estimated flow rate from the test valve was approximately two gallons per minute (gpm). Attempts to isolate the open test valve by plant operations personnel were unsuccessful. Plant operations personnel lowered level in CST 5 and water flowing from the test valve stopped at 10:35.

"The volume of water spilled to ground is estimated to be approximately 1,000 gallons. At 16:10, laboratory analysis results indicated this water contained 2.05 E-03 uCi/ml tritium. Mitigative actions will be developed and implemented. BFN Procedure: SPP 5.14 requires that state and local agencies be notified within one business day of verification of a discovery when: ' the spill or leak has or can potentially migrate to groundwater: 1. An unmonitored and inadvertent contaminated leak or spill of liquids of unknown volume and reasonably determined to be greater than 100 gallons to the environment occurs '

"This event is reportable as a 4-hour non-emergency notification report in accordance with 10 CFR 50.72(b)(2)(xi), 'Any event or situation, related to the health and safety of the public or onsite personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made.'"

The licensee notified the NRC Resident Inspector.