

Power Reactor	Event Number: 43420
Facility: BRUNSWICK Region: 2 State: NC Unit: [1] [2] [] RX Type: [1] GE-4,[2] GE-4 NRC Notified By: LEE GRZECK HQ OPS Officer: PETE SNYDER	Notification Date: 06/13/2007 Notification Time: 11:48 [ET] Event Date: 06/13/2007 Event Time: 08:00 [EDT] Last Update Date: 06/13/2007
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(2)(xi) - OFFSITE NOTIFICATION	Person (Organization): SCOTT SHAEFFER (R2)

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

Event Text

NOTIFICATIONS MADE FOR DETECTION OF TRITIUM IN ONSITE WATER SAMPLES

"On May 8, 2007, measurable levels of tritium were identified in two manholes (i.e., MW-5 and MW-6) that route cable to a nearby meteorological tower. The manholes are located within the boundaries of the site owner controlled area. The manholes are also in close proximity to the Storm Drain Stabilization Pond (SDSP). The SDSP is an area of approximately 64 acres consisting of a non-lined perimeter dike of approximately 12 to 15 feet in height. The site storm drain system collects in the storm drain collector basin and is then pumped to the SDSP. The storm drain collector basin receives overflow from the Turbine Building air-wash system, which contains very small amounts of tritium. By plant design, the tritiated water of the SDSP is then pumped into the intake canal during monitored, controlled releases, compliant with all permits and regulations.

"As a result of ongoing investigations to determine the source and potential migration path of the tritium, an increased environmental sampling program was initiated. On June 13, 2007, tritium levels in excess of Nuclear Energy Institute (NEI) voluntary reporting criteria were confirmed to be present in new onsite shallow groundwater wells.

"Immediate corrective actions taken were to perform additional sampling of areas surrounding the stabilization pond and [to reconfigure] the Turbine Building air-wash system. The reconfiguration of the turbine building airwash system will be done to eliminate the designed pathway of water to the storm drain collection basin and to the storm drain stabilization pond.

"Additional corrective actions include installation of additional monitoring wells at various locations to determine groundwater flow and checking for the presence of tritium.

"There is no indication that tritium has migrated into drinking water sources and all offsite monitoring has resulted in non-detectable levels of tritium. It is believed that the likely source of the tritiated water is seepage from the SDSP. The following agencies will be updated on the status of the onsite tritium samples and informed of the pending press release: State Officials, City of Southport, Brunswick County, NEI, INPO, and ANI."

The Licensee notified the NRC Resident inspector.

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