Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619
Tel. 815-417-2000

www.exeloncorp.com

Exelon Nuclear

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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. STN 50-456 and STN 50-457

Subject: Environmental Non-Routine Event Report for Exelon Generation Company, LLC-Braidwood Station

In accordance with the 30 day notification requirements of Facility Operating Licenses NPF-72 and NPF-77, Appendix B, Environmental Protection Plan, Sections 4.1, "Unusual or Important Environmental Events," and 5.4.2, "Non-routine Reports," Braidwood Station is submitting this Environmental Non-Routine Event Report due to leakage from an underground sump discharge line.

Event Description

On May 15, 2003, Station personnel discovered leakage in the underground sump discharge line, which had resulted in a water-filled depression near the Turbine Building wall (approximately 45 feet from a storm water drain). Braidwood Station personnel promptly responded by disabling the pre-treatment and low conductivity sumps, thereby stopping any additional leakage, beginning an investigation of the line, and taking samples at appropriate locations.

Water in the sump line at issue is made up primarily of unfiltered drinking water from the pre-treatment drain sump. The water that flowed out of the underground sump discharge line traveled from the leakage point into a nearby storm water drain.

Analysis and Evaluation

Following the discovery of the leakage, samples for total residual chlorine were taken at various locations including, (1) from the water filled depression (.03 mg/l), (2) at the oil water separator (.02 mg/l), and (3) at the confluence of the drainage ditch and spillway at the point where the ditch leaves Braidwood Station property (.04 mg/l). Other locations were also sampled along the ditch with results of .04 mg/l, .11 mg/l and .12 mg/l, respectively. Since the TRC level at the point closest to the leakage was only .03, the two higher levels are believed to have resulted from interference, most probably the presence of manganese, the impact of which has not been subtracted from these samples.

IE23

Corrective Actions
The pre-treatment and low conductivity sumps will remain disabled until the Station completes the line repairs. The effluent from these sumps is being routed to the Wastewater Treatment Plant which is the permitted system for processing these flows.

Agencies Notified and Preliminary Responses
Illinois Environmental Protection Agency

Should you have any questions concerning this letter, please contact Kelly Root, Regulatory Assurance Manager, at (815) 417-2800.

Respectfully,

Michael J. Pacilio
Site Vice President
Braidwood Station

cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - Braidwood Station