

June 26, 2006
EN-06-024

OFFICE OF ENFORCEMENT
NOTIFICATION OF SIGNIFICANT ENFORCEMENT ACTION

Licensee: Exelon Generation Company, LLC (EA-06-081)
Braidwood Nuclear Power Plant
Docket Nos. 05000456 and 05000457

Subject: ISSUANCE OF FINAL SIGNIFICANCE DETERMINATION AND NOTICE OF VIOLATION

This is to inform the Commission that a Notice of Violation associated with a White significance determination process finding will be issued on or about June 29, 2006, to Exelon Generation Company as a result of inspections at the Braidwood Nuclear Power Plant. This White finding, which may require additional NRC inspection, involved multiple failures of the licensee to adequately evaluate the radiological hazards associated with the leaks from the circulating water blowdown line vacuum breakers and to assess the environmental impact of the resultant onsite and offsite tritium contamination.

A Notice of Violation is included based on violations of 10 CFR 20.1501 and Technical Specifications (TS). Specifically, the licensee did not make surveys to assure compliance with 10 CFR 20.1501, to demonstrate that dose limits for members of the public were met. In addition, contrary to TS requirements, the licensee did not determine the cumulative dose contributions from liquid effluents inadvertently leaked to on-site and off-site locations and did not establish an appropriate surveillance and monitoring program to evaluate the relationship between quantities of radioactive material released in effluents and resultant doses to individuals from principal pathways of exposure.

It should be noted that the licensee has not been specifically informed of the enforcement action. The schedule of issuance and notification is:

Mailing of Final Significance Determination	June 29, 2006
Telephone Notification of Licensee	June 29, 2006

The State of Illinois will be notified.

Contacts: D. Starkey, OE, 301-415-3456 D. Solorio, OE, 301-415-0149

**PRELIMINARY INFORMATION - NOT FOR PUBLIC DISCLOSURE UNTIL
VERIFICATION THAT LICENSEE HAS RECEIVED ACTION**

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D. Starkey D. Solorio

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