

October 30, 2006

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNITS 1 AND 2,
SUPPLEMENTAL INSPECTION SCHEDULING

Dear Mr. Crane:

This letter supplements our mid-cycle performance review issued on August 31, 2006. As documented in the mid-cycle performance review we have assessed Braidwood Station Plant, Units 1 and 2, performance to be in the Regulatory Response column of the NRC's Action Matrix based on one inspection finding being classified as having low to moderate significance (White) in the public radiation safety cornerstone. On October 20, 2006, we were notified by Mr. Dale Ambler of your staff that you will have completed your applicable actions for that finding by December 22, 2006, and following that date will be ready for the NRC to conduct our supplemental inspection to review the actions taken to address the White finding. That finding and related violations were finalized in a letter dated June 29, 2006, and involved multiple failures by your staff to adequately evaluate the radiological hazards associated with the leaks from the circulating water blowdown line vacuum breaker valves and to assess the environmental impact of the resultant onsite and offsite tritium contamination. Therefore, we plan to conduct a supplemental inspection beginning on January 29, 2007, using Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." This inspection procedure is conducted to provide assurance that the root causes and contributing causes of risk significant performance issues are understood, the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

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Please contact me at (630) 829-9827 with any questions you may have regarding this letter.

Sincerely,

/RA/

Steven K. Orth,
Health Physics Program Manager
Division of Reactor Safety

Docket Nos. 50-456; 50-457
License Nos. NPF-72; NPF-77

cc: Site Vice President - Braidwood Station
Plant Manager - Braidwood Station
Regulatory Assurance Manager - Braidwood Station
Chief Operating Officer
Senior Vice President - Nuclear Services
Vice President - Operations Support
Director Licensing
Manager Licensing - Braidwood and Byron
Senior Counsel, Nuclear, Mid-West Regional
Operating Group
Document Control Desk - Licensing
Assistant Attorney General
Illinois Emergency Management Agency
State Liaison Officer
Chairman, Illinois Commerce Commission

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- cc: Site Vice President - Braidwood Station
- Plant Manager - Braidwood Station
- Regulatory Assurance Manager - Braidwood Station
- Chief Operating Officer
- Senior Vice President - Nuclear Services
- Vice President - Operations Support
- Director Licensing
- Manager Licensing - Braidwood and Byron
- Senior Counsel, Nuclear, Mid-West Regional
Operating Group
- Document Control Desk - Licensing
- Assistant Attorney General
- Illinois Emergency Management Agency
- State Liaison Officer
- Chairman, Illinois Commerce Commission

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