

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,

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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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