



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

December 2, 2010

Mr. Michael J. Pacilio  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO), Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

**SUBJECT: ASSESSMENT FOLLOW-UP LETTER FOR BRAIDWOOD STATION, UNIT 1**

Dear Mr. Pacilio:

The purpose of this letter is to inform you that as a result of our continuous review of plant performance, the NRC has updated its assessment of Braidwood Station, Unit 1. Our evaluation consisted of a review of inspection results and performance indicators. This letter supplements, but does not supercede, the mid-cycle letter issued on September 1, 2010.

On November 26, 2010, the NRC closed a White finding that was being held open pending the completion of a supplemental inspection. The finding involved the June 24, 2009, failure of Unit 1 Containment Sump Suction Isolation Valve 1SI8811B to open during surveillance testing.

The NRC recently completed this supplemental inspection in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area." The purpose of this inspection was to provide assurance that the root causes and contributing causes of the White finding were understood, the extent of condition and extent of cause were identified, and that the corrective actions were sufficient to address the root causes and contributing causes and to prevent recurrence.

Following this inspection, the NRC concluded that your root cause evaluation was conducted to a sufficient level of detail and reached reasonable conclusions as to the root and contributing causes of the event. The NRC also concluded that you identified the extent of condition and extent of cause of the issue, and that you identified appropriate corrective actions for each root and contributing cause.

As a result, the NRC has determined that, as of the date of this letter, performance at Braidwood Station, Unit 1, is within the Licensee Response column of the Reactor Oversight Process (ROP) Action Matrix. However, the finding can still be considered for agency actions in accordance with the ROP Action Matrix until December 31, 2010.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Eric Duncan at (630) 829-9620 with any questions you have regarding this letter.

Sincerely,

**/RA by Gary L. Shear for/**

Steven West, Director  
Division of Reactor Projects

Docket No. 50-456  
License No. NPF-72

cc: Distribution via ListServ

M. Pacilio

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Letter to M. Pacilio from S. West dated December 2, 2010.

SUBJECT: ASSESSMENT FOLLOW-UP LETTER FOR BRAIDWOOD STATION, UNIT 1

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