



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2009

Mr. Charles G. Pardee  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO), Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
DRESDEN NUCLEAR POWER STATION**

Dear Mr. Pardee:

On August 20, 2009, the NRC staff completed its performance review of the Dresden Nuclear Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008, through June 30, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at the Dresden Nuclear Power Station was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

There were five inspection findings during the assessment period with documented cross-cutting aspects in the area of Problem Identification and Resolution (PI&R). There is a cross-cutting theme with four of these findings, which affected multiple cornerstones (i.e., Initiating Events, Mitigating Systems, and Barrier Integrity). This cross-cutting theme involves the station's ability to take appropriate corrective actions to address safety issues and adverse trends in a timely manner, commensurate with their safety significance and complexity, P.1(d). In evaluating your scope of efforts and progress in addressing the cross-cutting theme, we determined that you have appropriately identified the cross-cutting theme and have scheduled or taken a range of corrective actions to address the issue. Based on the recent time-frame associated with some of these performance issues, corrective actions have not reasonably been in place long enough to determine their effectiveness. Therefore, the staff has concluded that a substantive cross-cutting issue in PI&R is not warranted at this time. We will continue to monitor the effectiveness of these corrective actions as part of our ongoing assessments.

On August 19, 2009, we issued a preliminary White inspection finding related to an inadvertent rod withdrawal event that occurred at Dresden on November 3, 2008 (ML092320164). This finding was not included within this assessment since the final significance had not yet been determined. Following the final significance determination, the finding will be included in the assessment process and additional inspection(s) will be conducted, as appropriate.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2010. The inspections scheduled include: licensed operator initial and requalification, emergency preparedness, biennial problem identification and resolution, component design basis, ground water protection initiative, and outage related inspections. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the End-of-Cycle review.

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

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (630) 829-9600 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

K. Steven West, Director  
Division of Reactor Projects

Docket Nos. 50-237; 50-249  
License Nos. DPR-19; DPR-25

Enclosure: Dresden Power Station Inspection/Activity Plan

DISTRIBUTION:  
See next page

Letter to C. Pardee from K. West dated September 1, 2009

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
DRESDEN NUCLEAR POWER STATION

cc w/encl: Site Vice President - Dresden Nuclear Power Station  
Plant Manager - Dresden Nuclear Power Station  
Manager Regulatory Assurance - Dresden Nuclear Power Station  
Senior Vice President - Midwest Operations  
Senior Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director - Licensing and Regulatory Affairs  
Manager Licensing - Clinton, Dresden, and Quad Cities  
Associate General Counsel  
Document Control Desk - Licensing  
Assistant Attorney General  
J. Klinger, State Liaison Officer,  
Illinois Emergency Management Agency  
Chairman, Illinois Commerce Commission  
Will County Executive  
Will County Sheriff  
Director, Will County Emergency  
Management Agency  
Mayor of Joliet  
City Manager of Joliet  
Kendall County Board Chairman  
Kendall County Sheriff  
Grundy County Board Chairman  
Grundy County Sheriff  
Grundy County Emergency Management Agency  
Mayor of Morris  
Minooka Village President  
Mayor of Coal City  
Mayor of Carbon Hill  
Mayor of Diamond  
Mayor of Braidwood  
Mayor of Wilmington  
Channahon Village President  
Channahon Village Administrator  
Mayor of Shorewood  
Shorewood Village Administrator  
Mayor of Elwood  
G. Mortensen, INPO

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Letter to C. Pardee from K. West dated September 1, 2009

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DRESDEN NUCLEAR POWER STATION

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RidsNrrDorLpl3-2

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DRPIII

DRSIII

Patricia Buckley

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**Dresden**  
**Inspection / Activity Plan**  
**09/01/2009 - 12/31/2010**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>
11/09/2009	11/20/2009	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 1&amp;2 - U2</b>		<b>5</b>
10/05/2009	11/20/2009	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/16/2009	11/20/2009	IP 7112101	Access Control to Radiologically Significant Areas	
11/16/2009	11/20/2009	IP 7112102	ALARA Planning and Controls	
11/16/2009	11/20/2009	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
02/08/2010	02/12/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 3 - U2</b>		<b>1</b>
02/08/2010	02/12/2010	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
02/08/2010	02/12/2010	IP 7111402	Alert and Notification System Testing	
02/08/2010	02/12/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
02/08/2010	02/12/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
02/08/2010	02/12/2010	IP 71151-EP01	Drill/Exercise Performance	
02/08/2010	02/12/2010	IP 71151-EP02	ERO Drill Participation	
02/08/2010	02/12/2010	IP 71151-EP03	Alert & Notification System	
		<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
03/01/2010	07/31/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>FY 2010 - DRESDEN INIT PREP FEB/2010</b>		<b>3</b>
02/08/2010	02/12/2010	W90218	OL - INITIAL EXAM - MAR 2010 - DRES	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>6</b>
03/01/2010	03/19/2010	IP 71152B	Identification and Resolution of Problems	
		<b>FY 2010 - DRESDEN INIT EXAM MARCH/2010</b>		<b>2</b>
03/08/2010	03/19/2010	W90218	OL - INITIAL EXAM - MAR 2010 - DRES	
		<b>BI ENG - COMPONENT DESIGN BASIS INSPECTION</b>		<b>6</b>
04/19/2010	05/21/2010	IP 7111121	Component Design Bases Inspection	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
05/03/2010	05/07/2010	IP 7112101	Access Control to Radiologically Significant Areas	
05/03/2010	05/07/2010	IP 7112102	ALARA Planning and Controls	
05/03/2010	05/07/2010	IP 71151-BI01	Reactor Coolant System Activity	
		<b>BI OL - LIC. OPERATOR REQUAL. PROGRAM EVALUATION</b>		<b>2</b>
05/24/2010	05/28/2010	IP 7111111B	Licensed Operator Requalification Program	

**Dresden**  
**Inspection / Activity Plan**  
**09/01/2009 - 12/31/2010**

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Start	End			
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/16/2010	08/20/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
08/16/2010	08/20/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 1 - U3</b>		<b>7</b>
10/18/2010	10/29/2010	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 2 - U3</b>		<b>3</b>
11/01/2010	11/19/2010	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>
11/01/2010	11/19/2010	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/15/2010	11/19/2010	IP 7112102	ALARA Planning and Controls	
11/15/2010	11/19/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	