



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

September 2, 2008

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

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

Dear Mr. Pardee:

On August 14, 2008, the NRC staff completed its performance review of the Quad Cities Nuclear Power Station for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. 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 for both Quad Cities Units 1 and 2 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 for Quad Cities Units 1 and 2.

Additionally, the staff has determined that the substantive cross-cutting issue identified in the Mid-cycle Assessment letter dated August 31, 2007, in the area of human performance with a cross-cutting theme in the aspect of documentation [H.2(c)] will be closed. Although there were ten Green findings with a documented cross-cutting aspect in human performance during the assessment period and four of the findings shared the common cross-cutting aspect of failure to provide complete, accurate and up-to-date procedures [H.2(c)], our inspectors have reviewed the Quad Cities cross-cutting issue corrective action plan, monitored the execution of the corrective actions, and have determined that sufficient progress has been demonstrated to support closing the substantive crosscutting issue.

The staff notes that sustained licensee progress will require continued strong management involvement given the number of findings in the human performance area and the continued presence of the cross-cutting aspect. We will continue to monitor your performance in this area during NRC baseline inspections.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2009. 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. Additional inspections scheduled include: component design basis, triennial fire protection, independent spent fuel storage installation (ISFSI), and initial license examination. The inspections in the last nine 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), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Mark A. Ring at 630-829-9703 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Cynthia D. Pederson, Director  
Division of Reactor Projects

Docket Nos. 50-254; 50-265; 72-053  
License Nos. DPR-29; DPR-30

Enclosure: Quad Cities Inspection/Activity Plan

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See next page

Letter to C. Pardee from C. Pederson dated September 2, 2008

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QUAD CITIES NUCLEAR POWER STATION

cc w/encl: Site Vice President - Quad Cities Nuclear Power Station  
Plant Manager - Quad Cities Nuclear Power Station  
Regulatory Assurance Manager -  
Quad Cities Nuclear Power Station  
Chief Operating Officer and Senior Vice President  
Senior Vice President - Midwest Operations  
Senior Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director Licensing - Licensing and Regulatory Affairs  
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Associate General Counsel  
Vice President - Law and Regulatory Affairs  
D. Tubbs, Manager of Nuclear  
Document Control Desk - Licensing  
Assistant Attorney General  
J. Klinger, State Liaison Officer,  
Illinois Emergency Management Agency  
M. Rasmusson, State Liaison Officer, State of Iowa  
Chairman, Illinois Commerce Commission  
Chief Radiological Emergency Preparedness Section,  
Dept. Of Homeland Security  
Chairman, Rock Island County Board  
Rock Island County Sheriff  
Coordinator, Rock Island Emergency Services and Disaster  
Chairman, Whiteside County Board  
Whiteside County Sheriff  
Coordinator, Whiteside County Emergency Services  
Chairman, Board of Supervisors  
Clinton County Sheriff  
Coordinator, Clinton County Emergency Management  
Scott County Administrator  
Scott County Sheriff  
Coordinator, Scott County Emergency Management  
Mayor of Albany  
Mayor of Rapids City  
President, Village of Port Byron  
President, Village of Cordova  
Mayor of Camanche  
Mayor of Clinton  
Clinton City Administrator  
Mayor of Low Moor  
Mayor of LeClaire  
LeClaire City Administrator  
Mayor of Princeton  
Mayor of McCausland  
G. Mortensen, INPO

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Letter to C. Pardee from C. Pederson dated September 2, 2008

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QUAD CITIES NUCLEAR POWER STATION

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Tamara Bloomer

RidsNrrDorlLpl3-2

RidsNrrPMQuad Cities

RidsNrrDirslpab Resource

James Caldwell

Mark Satorius

Kenneth Obrien

Jared Heck

Allan Barker

DRPIII

DRSIII

Patricia Buckley

Tammy Tomczak

[ROPreports@nrc.gov](mailto:ROPreports@nrc.gov)

**Quad Cities**  
**Inspection / Activity Plan**  
**09/01/2008 - 12/31/2009**

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	End	Inspection Type
<b>BI ENG - COMPONENT DESIGN BASES INSPECTION</b>		<b>6</b>			
IP 7111121	Component Design Bases Inspection		09/22/2008	10/24/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		09/08/2008	09/12/2008	Baseline Inspections
IP 7112102	ALARA Planning and Controls		09/08/2008	09/12/2008	Baseline Inspections
<b>TI - TEMPORARY INSTRUCTION 2515/171</b>		<b>2</b>			
IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		11/17/2008	11/21/2008	Generic Safety Inspectio
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/08/2008	12/12/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		12/08/2008	12/12/2008	Baseline Inspections
<b>BI ENG - TRIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>			
IP 7111107B	Heat Sink Performance		01/26/2009	01/30/2009	Baseline Inspections
<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>1</b>			
IP 7111402	Alert and Notification System Testing		03/02/2009	03/06/2009	EP Baseline Inspection
IP 7111403	Emergency Response Organization Augmentation Testing		03/02/2009	03/06/2009	EP Baseline Inspection
IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		03/02/2009	03/06/2009	EP Baseline Inspection
IP 71151-EP01	Drill/Exercise Performance		03/02/2009	03/06/2009	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		03/02/2009	03/06/2009	Baseline Inspections
IP 71151-EP03	Alert & Notification System		03/02/2009	03/06/2009	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/09/2009	03/13/2009	Baseline Inspections
<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>			
IP 7111108G	Inservice Inspection Activities - BWR		05/11/2009	05/15/2009	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		05/18/2009	05/28/2009	Baseline Inspections
IP 7112102	ALARA Planning and Controls		05/18/2009	05/28/2009	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		05/18/2009	05/28/2009	Baseline Inspections
<b>BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>			
IP 7111105T	Fire Protection [Triennial]		07/20/2009	08/07/2009	Baseline Inspections
<b>ISFSI - ISFSI - ROUTINE LOADING</b>		<b>1</b>			
IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/01/2009	09/30/2009	Other Routine
<b>BI ENG - TRIENNIAL FIRE INS. INFO GATHERING TRIP</b>		<b>3</b>			
IP 7111105T	Fire Protection [Triennial]		07/06/2009	07/10/2009	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112202	Radioactive Material Processing and Transportation		09/14/2009	09/18/2009	Baseline Inspections

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			Start	End	
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 71151-BI01	Reactor Coolant System Activity		09/14/2009	09/18/2009	Baseline Inspections
<b>BI OL</b>	<b>- BIENNIAL REQUAL. PROGRAM INSPECTION</b>	<b>2</b>			
IP 7111111B	Licensed Operator Requalification Program		10/26/2009	10/30/2009	Baseline Inspections
<b>OL EXAM</b>	<b>- OPERATOR LICENSING EXAM</b>	<b>3</b>			
W90200	OL - INITIAL EXAM - MAY/JUNE 2009 - QUAD		10/26/2009	10/30/2009	Not Applicable
W90200	OL - INITIAL EXAM - MAY/JUNE 2009 - QUAD		11/16/2009	11/27/2009	Not Applicable
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		12/14/2009	12/18/2009	Generic Safety Inspectio
IP 7112101	Access Control to Radiologically Significant Areas		12/14/2009	12/18/2009	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		12/14/2009	12/18/2009	Baseline Inspections