

August 31, 2007

Mr. Christopher M. Crane  
President and Chief Nuclear Officer  
Exelon Nuclear  
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. Crane:

On August 14, 2007, the NRC staff completed its performance review of the Quad Cities Nuclear Power Station for the first half of the calendar year 2007 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 at Quad Cities Unit 1 returned to the Licensee Response column of the NRC's Action Matrix based on all inspection findings in the assessment period being classified as having very low safety significance (Green), all PIs indicating performance at a level requiring no additional NRC oversight (Green) and removal of the White finding documented in June 2006. Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections on Unit 1.

Plant performance for the most recent quarter at Quad Cities Unit 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 ROP baseline inspections at your facility.

Additionally, the staff has identified a substantive cross-cutting issue in the area of human performance with a cross-cutting theme in the aspect of documentation (H.2(c)). There were 12 Green findings with a documented cross-cutting aspect in human performance. Four of the findings in the Human Performance Resource area shared the common cross-cutting aspect of failure to provide complete, accurate and up-to-date procedures (H.2(c)). In addition, these

findings were from more than one cornerstone (Emergency Preparedness, Mitigating Events, and Initiating Events). This substantive cross-cutting issue will remain open until the number of findings with the same cross-cutting aspect is reduced or when the NRC gains confidence in the performance of your corrective action program to evaluate and correct problems.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2008. 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 scheduled include: maintenance effectiveness inspection, licensed operator requalification inspection, biennial PI&R inspection, and component design bases inspection. 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).

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 Mark A. Ring at (630) 829-9703 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA by Anthony H. Hsia Acting for/***

Cynthia D. Pederson, Director  
Division of Reactor Projects

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

Enclosure: Quad Cities Inspection/Activity Plan

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Enclosure: Quad Cities Inspection/Activity Plan

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**\*See previous concurrence**

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Letter to C. Crane from C. Pederson dated August 31, 2007

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
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  
Senior Vice President - Nuclear Services  
Senior Vice President - Mid-West Regional  
Operating Group  
Vice President - Mid-West Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director Licensing - Mid-West Regional  
Operating Group  
Manager Licensing - Dresden and Quad Cities  
Senior Counsel, Nuclear, Mid-West Regional  
Operating Group  
Document Control Desk - Licensing  
Vice President - Law and Regulatory Affairs  
Mid American Energy Company  
Assistant Attorney General  
Illinois Emergency Management Agency  
State Liaison Officer, State of Illinois  
State Liaison Officer, State of Iowa  
Chairman, Illinois Commerce Commission  
Chief Radiological Emergency Preparedness Section,  
Dept. Of Homeland Security  
D. Tubbs, Manager of Nuclear  
MidAmerican Energy Company  
Chairman, Rock Island County Board  
Rock Island County Sheriff  
Coordinator, Rock Island Emergency Services and  
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

(Continued Dist) Letter to C. Crane from C. Pederson dated August 31, 2007

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

Mayor of Clinton  
Clinton City Administrator  
Mayor of Low Moor  
Mayor of LeClaire  
LeClaire City Administrator  
Mayor of Princeton  
Mayor of McCausland  
INPO

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QUAD CITIES NUCLEAR POWER STATION

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RML2

SAM9

SRI Quad Cities

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DRSIII

PLB1

TXN

**Quad Cities  
Inspection / Activity Plan  
09/01/2007 - 12/31/2008**

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	End	Inspection Type
<b>BI ENG</b>	<b>- ENGINEERING MODIFCATIONS / 50.59 INSP.</b>	<b>2</b>			
IP 7111102	Evaluation of Changes, Tests, or Experiments		08/20/2007	09/07/2007	Baseline Inspections
IP 7111117B	Permanent Plant Modifications		08/20/2007	09/07/2007	Baseline Inspections
<b>ISFSI</b>	<b>- ISFSI INSPECTION</b>	<b>1</b>			
IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		09/01/2007	10/30/2007	Other Routine
<b>BI ENG</b>	<b>- BIENNIAL MAINTENANCE EFFECTIVENESS INSP.</b>	<b>1</b>			
IP 7111112B	Maintenance Effectiveness		09/24/2007	09/28/2007	Baseline Inspections
<b>BI OL</b>	<b>- BIENNIAL REQUAL. PROGRAM INSPECTION</b>	<b>2</b>			
IP 7111111B	Licensed Operator Requalification Program		10/29/2007	11/03/2007	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		11/26/2007	11/30/2007	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		11/26/2007	11/30/2007	Baseline Inspections
<b>BI ENG</b>	<b>- ENGINEERING INSERVICE INSPECTION</b>	<b>1</b>			
IP 7111108G	Inservice Inspection Activities - BWR		03/03/2008	03/28/2008	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		03/10/2008	03/14/2008	Baseline Inspections
IP 7112102	ALARA Planning and Controls		03/10/2008	03/14/2008	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		03/10/2008	03/14/2008	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		06/02/2008	06/06/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		06/02/2008	06/06/2008	Baseline Inspections
<b>BI ENG</b>	<b>- BIENNIAL HEAT SINK INSPECTION</b>	<b>1</b>			
IP 7111107B	Heat Sink Performance		07/14/2008	07/18/2008	Baseline Inspections
<b>BI EP</b>	<b>- EP EXERCISE INSPECTION / PI VERIFICATION</b>	<b>3</b>			
IP 7111401	Exercise Evaluation		08/25/2008	08/29/2008	Baseline Inspections
IP 71151-EP01	Drill/Exercise Performance		08/25/2008	08/29/2008	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		08/25/2008	08/29/2008	Baseline Inspections
IP 71151-EP03	Alert & Notification System		08/25/2008	08/29/2008	Baseline Inspections
<b>BI RP</b>	<b>- 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
IP 71151-BI01	Reactor Coolant System Activity		09/08/2008	09/12/2008	Baseline Inspections
<b>BI PI&amp;R</b>	<b>- BIENNIAL PI&amp;R INSPECTION</b>	<b>4</b>			
IP 71152B	Identification and Resolution of Problems		09/08/2008	09/26/2008	Baseline Inspections

**Quad Cities**  
**Inspection / Activity Plan**  
**09/01/2007 - 12/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>BI ENG - COMPONENT DESIGN BASES INSPECTION</b>		<b>5</b>			
1	IP 7111121	Component Design Bases Inspection		10/20/2008	11/21/2008	Baseline Inspections
	<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/08/2008	12/12/2008	Baseline Inspections