

August 30, 2005

Mr. Christopher M. Crane  
President and Chief Nuclear Officer  
Exelon Nuclear  
Exelon Generation Company, LLC  
Quad Cities Nuclear Power Station  
4300 Winfield Road  
Warrenville, IL 60555

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

Dear Mr. Crane:

On August 9, 2005, the NRC staff completed its performance review of the Quad Cities Nuclear Power Station for the first half of the calendar year 2005 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter at 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 only reactor oversight process (ROP) baseline inspections at your facility through March 31, 2007.

As discussed in our Annual Assessment Letter dated March 2, 2005, extended power uprates (EPU) continue to be a major issue at Quad Cities. Significant progress has been made regarding the resolution of the multiple extended power uprate issues at Quad Cities. During the assessment period both reactor vessel steam dryers were replaced. Extensive testing and analysis was performed following the replacement. The NRC held extensive communications with representatives from Exelon before, during, and after the dryer replacements in an effort to fully understand steam dryer manufacturing issues, steam dryer installation, dryer testing, and comparison of the previously performed steam dryer analyses to the test results. We plan to continue those discussions in accordance with the commitments in your letter, "Commitments and Plans Related to Extended Power Uprate Operation," dated July 26, 2005.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through March 31, 2007. The plan contains a Triennial Fire Protection inspection scheduled for April/May 2006 and a Problem Identification and Resolution Inspection scheduled for October 2006. The inspection plan is provided to minimize the resource impact on your staff and 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 nine months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be 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 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 me at 630-829-9703 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Mark A. Ring, Chief  
Reactor Projects Branch 1  
Division of Reactor Projects

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

Enclosure: Quad Cities Inspection/Activity Plan

See Attached Distribution

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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  
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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  
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**Quad Cities**  
**Inspection / Activity Plan**  
**09/01/2005 - 03/31/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>ISFSI</b>	<b>- ISFSI INSPECTION ACTIVITIES</b>	<b>1</b>			
1	IP 2515/149	Mitigating Systems Performance Index Pilot Verification		08/01/2005	09/30/2005	Safety Issues
1	IP 60854	Preoperational Testing Of An ISFSI		08/01/2005	09/30/2005	Other Routine
1	IP 2515/149	Mitigating Systems Performance Index Pilot Verification		09/01/2005	09/30/2005	Safety Issues
1,2	IP 60856	Review of 10 CFR 72.212(b) Evaluations		09/01/2005	09/30/2005	Other Routine
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		10/01/2005	12/31/2005	Other Routine
	<b>MOD/5059</b>	<b>- MODIFICATIONS/50.59 INSPECTION</b>	<b>2</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		10/03/2005	10/07/2005	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		10/03/2005	10/07/2005	Baseline Inspections
	<b>MAINT</b>	<b>- BIENNIAL MAINTENANCE RULE INSPECTION</b>	<b>1</b>			
1,2	IP 7111112B	Maintenance Effectiveness		10/24/2005	10/28/2005	Baseline Inspections
	<b>71111.11</b>	<b>- LIC OPERATOR REQUAL PROGRAM EVALUATION</b>	<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		10/31/2005	11/04/2005	Baseline Inspections
	<b>71151</b>	<b>- PI VERIFICATION</b>	<b>1</b>			
1,2	IP 71151	Performance Indicator Verification		11/28/2005	12/02/2005	Baseline Inspections
	<b>ISI</b>	<b>- QUAD CITIES UNIT 2 ISI INSPECTION</b>	<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/20/2006	03/24/2006	Baseline Inspections
	<b>71121.02</b>	<b>- ALARA, ACCESS CONTROL</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/27/2006	04/07/2006	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/27/2006	04/07/2006	Baseline Inspections
	<b>FPI</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>3</b>			
1,2	IP 7111105T	Fire Protection [Triennial]		04/24/2006	05/12/2006	Baseline Inspections
	<b>71114</b>	<b>- BIENNIAL EP EXERCISE</b>	<b>1</b>			
1,2	IP 7111401	Exercise Evaluation		05/15/2006	05/19/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		05/15/2006	05/19/2006	Baseline Inspections
	<b>IP 71122</b>	<b>- ACCESS CONTROL, EFFLUENTS</b>	<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		06/26/2006	06/30/2006	Baseline Inspections
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/26/2006	06/30/2006	Baseline Inspections
	<b>SSDPC</b>	<b>- SAFETY SYS DESIGN &amp; PERFORMANCE CAPABILI</b>	<b>5</b>			
1,2	IP 7111121	Safety System Design and Performance Capability		08/28/2006	09/29/2006	Baseline Inspections
	<b>INSPECTI</b>	<b>- ISFSI INPSECTION</b>	<b>2</b>			
1	IP 2515/149	Mitigating Systems Performance Index Pilot Verification		09/01/2006	11/30/2006	Safety Issues
	<b>71152B</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	<b>2</b>			
1,2	IP 71152B	Identification and Resolution of Problems		10/01/2006	10/31/2006	Baseline Inspections

**Quad Cities**  
**Inspection / Activity Plan**  
**09/01/2005 - 03/31/2007**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>7112203 - REMP</b>		<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		10/09/2006	10/13/2006	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		10/09/2006	10/13/2006	Baseline Inspections
	<b>BI - HEAT SINK INSPECTION</b>		<b>1</b>			
1,2	IP 7111107B	Heat Sink Performance		11/13/2006	11/17/2006	Baseline Inspections
	<b>71114 - BASELINE EP INSP</b>		<b>1</b>			
1,2	IP 7111402	Alert and Notification System Testing		01/29/2007	02/02/2007	Baseline Inspections
1,2	IP 7111403	Emergency Response Organization Augmentation Testing		01/29/2007	02/02/2007	Baseline Inspections
1,2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		01/29/2007	02/02/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		01/29/2007	02/02/2007	Baseline Inspections
	<b>7112102 - OUTAGE: ACC CNTL &amp; ALARA</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/12/2007	02/16/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		02/12/2007	02/16/2007	Baseline Inspections