

March 2, 2007

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

SUBJECT: ANNUAL ASSESSMENT LETTER - QUAD CITIES NUCLEAR  
POWER STATION (REPORT 05000254/2007001; 05000265/2007001)

Dear Mr. Crane:

On February 14, 2007, the Nuclear Regulatory Commission (NRC) staff completed its performance review of Quad Cities Nuclear Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2006. 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 as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" and marked as "Official Use Only - Security-Related Information" will include the physical protection review and resultant inspection plan.

Overall, Quad Cities Units 1 and 2 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Quad Cities Unit 1 performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix based on one inspection finding being classified as having low to moderate safety significance (White) in the mitigating systems cornerstone. The White finding and associated violation were finalized in a letter dated June 29, 2006, and related to the failure to verify that the electromatic relief valve actuator design was suitable for operation at the increased vibration levels experienced at extended power uprate power levels. In addition to conducting the reactor oversight process (ROP) baseline inspections of Unit 1, a supplemental inspection using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," will be performed during the first quarter of 2007.

Quad Cities Unit 2 plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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 of Unit 2.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 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. The plan also contains inspections using Independent Spent Fuel Storage Installation procedures. 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 mid-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 this 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/*

Mark A. Satorius, Director  
Division of Reactor Projects

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

Enclosure: Quad Cities Inspection/Activity Plan

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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  
Vice President - Mid-West Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director Licensing - Mid-West Regional  
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State Liaison Officer, State of Illinois  
State Liaison Officer, State of Iowa  
Chairman, Illinois Commerce Commission  
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  
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**Quad Cities**  
**Inspection / Activity Plan**  
**03/01/2007 - 06/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>FY 2007 - QUAD CITIES INIT PREP 05/2007</b>		<b>3</b>			
1	W90150	OL - INITIAL EXAM - QUAD CITIES - MAY/JUNE 2007		04/16/2007	04/20/2007	Not Applicable
	<b>7112102 - OUTAGE: ACC CNTL &amp; ALARA</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		05/07/2007	05/11/2007	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		05/07/2007	05/11/2007	Baseline Inspections
	<b>ISI - ISI BASELINE INSPECTION</b>		<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		05/07/2007	05/11/2007	Baseline Inspections
	<b>FY 2007 - QUAD CITIES INIT EXAM 06/2007</b>		<b>3</b>			
1	W90150	OL - INITIAL EXAM - QUAD CITIES - MAY/JUNE 2007		06/04/2007	06/15/2007	Not Applicable
	<b>MOD5059 - MODIFCATION/50.59 INSPECTION</b>		<b>2</b>			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		08/20/2007	09/07/2007	Baseline Inspections
1,2	IP 7111117B	Permanent Plant Modifications		08/20/2007	09/07/2007	Baseline Inspections
	<b>7112202 - RADWASTE &amp; TRANSPORTATION</b>		<b>1</b>			
1,2	IP 7112202	Radioactive Material Processing and Transportation		08/27/2007	08/31/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		08/27/2007	08/31/2007	Baseline Inspections
	<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>			
1,2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		09/01/2007	10/30/2007	Other Routine
	<b>MAINRULE - MAINTENANCE EFFECTIVENESS INSPECTION</b>		<b>1</b>			
1,2	IP 7111112B	Maintenance Effectiveness		09/24/2007	09/28/2007	Baseline Inspections
	<b>7111111B - LIC OPERATOR REQUAL PROGRAM EVALUATION</b>		<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		10/29/2007	11/03/2007	Baseline Inspections
	<b>7112102 - ACCESS CONTROL &amp; PI VERIFICATION</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		11/26/2007	11/30/2007	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		11/26/2007	11/30/2007	Baseline Inspections
	<b>ISI - ISI INSPECTION</b>		<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/03/2008	03/28/2008	Baseline Inspections
	<b>7112102 - OUTAGE ALARA</b>		<b>1</b>			
1,2	IP 7112102	ALARA Planning and Controls		03/10/2008	03/14/2008	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		03/10/2008	03/14/2008	Baseline Inspections
	<b>7112203 - REMP/RAD MTL CONTROL</b>		<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		06/02/2008	06/06/2008	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		06/02/2008	06/06/2008	Baseline Inspections