

March 2, 2006

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: ANNUAL ASSESSMENT LETTER - QUAD CITIES NUCLEAR POWER
STATION (REPORT 50-254/06-01; 50-265/06-01)

Dear Mr. Crane:

On February 9, 2006, the 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, 2005. 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 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. 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 reactor oversight process (ROP) baseline inspections at your facility. We also plan on performing inspection procedure 71004, "Power Uprate," to inspect activities related to the installation, modifications and testing of the electromatic relief valves on both units during the respective outages when you perform those activities.

As discussed in our Annual Assessment Letter, dated March 2, 2005, and in our Mid-cycle Performance Review Letter, dated August 30, 2005, equipment degradation related to extended power uprate (EPU) continues to be a major issue at Quad Cities. This condition was further evident following the discovery of degraded electromatic relief valve (ERV) actuators on

December 30, 2005. As a result, we chartered a Special Inspection on January 9, 2006, to review your activities in response to this discovery. You informed the NRC of your plans to address the ERV issues, and the remaining steam dryer issues in a commitment letter dated January 26, 2006. We plan to continue to review and monitor all EPU-related activities in 2006.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through September 30, 2007. 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). 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 this 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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Mark A. Ring, Chief
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Enclosure: Quad Cities Inspection/Activity PI

See Attached Distribution

See Previous Concurrence

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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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MidAmerican Energy Company
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ADAMS Distribution:

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JLC1

GEG

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RML2

SRI Quad Cities

DRPIII

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PLB1

JRK1

ROPreports@nrc.gov (inspection reports, final SDP letters, any letter with an IR number)

Quad Cities
Inspection / Activity Plan
03/01/2006 - 09/30/2007

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	71004	- POWER UPRATE	1			
1,2	IP 71004	Power Uprate		03/01/2006	06/29/2006	Other Routine
	ISI	- QUAD CITIES UNIT 2 ISI INSPECTION	1			
2	IP 7111108G	Inservice Inspection Activities - BWR		03/20/2006	03/24/2006	Baseline Inspections
	71121.02	- ALARA, ACCESS CONTROL	1			
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
	FPI	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
1,2	IP 7111105T	Fire Protection [Triennial]		04/24/2006	05/12/2006	Baseline Inspections
	71114	- BIENNIAL EP EXERCISE	1			
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
	INSP	- ISFSI INSPECTION	1			
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		06/01/2006	07/30/2006	Other Routine
	IP 71122	- ACCESS CONTROL, EFFLUENTS	1			
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
	CDBI	- COMPONENT DESIGN BASES INSPECTION	6			
1,2	IP 7111121	Component Design Bases Inspection		08/14/2006	09/15/2006	Baseline Inspections
	INSPECTI	- ISFSI INPSECTION	2			
1	IP 2515/149	Mitigating Systems Performance Index Pilot Verification		09/01/2006	11/30/2006	Safety Issues
	7112203	- REMP	1			
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
	71152B	- PROBLEM IDENTIFICATION AND RESOLUTION	3			
1,2	IP 71152B	Identification and Resolution of Problems		10/30/2006	11/17/2006	Baseline Inspections
	BI	- HEAT SINK INSPECTION	1			
1,2	IP 7111107B	Heat Sink Performance		12/18/2006	12/22/2006	Baseline Inspections
	71114	- BASELINE EP INSP	1			
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
	7112102	- OUTAGE: ACC CNTL & ALARA	1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		02/12/2007	02/16/2007	Baseline Inspections

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Quad Cities
Inspection / Activity Plan
03/01/2006 - 09/30/2007

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	7112102	- OUTAGE: ACC CNTL & ALARA	1			
1,2	IP 7112102	ALARA Planning and Controls		02/12/2007	02/16/2007	Baseline Inspections
	7112202	- RADWASTE & TRANSPORTATION	1			
1,2	IP 7112202	Radioactive Material Processing and Transportation		03/12/2007	03/16/2007	Baseline Inspections
	7112103	- INSTRUMENTATION & SCBA	1			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		05/07/2007	05/11/2007	Baseline Inspections
	FY 2007	- QUAD CITIES INIT PREP 05/2007	3			
1	W90150	OL - INITIAL EXAM - QUAD CITIES - MAY/JUNE 2007		05/14/2007	05/18/2007	Not Applicable
	FY 2007	- QUAD CITIES INIT EXAM 06/2007	3			
1	W90150	OL - INITIAL EXAM - QUAD CITIES - MAY/JUNE 2007		06/04/2007	06/15/2007	Not Applicable
	MOD5059	- MODIFCATION/50.59 INSPECTION	2			
1,2	IP 7111102	Evaluation of Changes, Tests, or Experiments		07/30/2007	08/17/2007	Baseline Inspections
1,2	IP 711117B	Permanent Plant Modifications		07/30/2007	08/17/2007	Baseline Inspections