

August 31, 2006

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 -  
DRESDEN NUCLEAR POWER STATION

Dear Mr. Crane:

On August 7, 2006, the NRC staff completed its performance review of the Dresden Nuclear Power Station for the first half of the calendar year 2006 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 Dresden Units 2 and 3 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 steam dryer replacement on Unit 3 during the fall 2006 refueling outage and plan to perform the same inspection procedure during the proposed Unit 2 refueling outage in the fall 2007.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through March 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. In addition, the resident inspectors plan to perform Temporary Instruction 2515/169, "Mitigating Systems Performance Index Verification," prior to the end of calendar year 2006. 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 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), 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. 50-237; 50-249; 72-037  
License Nos. DPR-19; DPR-25

Enclosure:  
Dresden Inspection/Activity Plan

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C. Crane

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cc w/encl: Site Vice President - Dresden Nuclear Power Station  
Dresden Nuclear Power Station Plant Manager  
Regulatory Assurance Manager - Dresden  
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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Management Agency  
Mayor of Joliet  
City Manager of Joliet  
Kendall County Board Chairman  
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[ROPreports@nrc.gov](mailto:ROPreports@nrc.gov) (inspection reports, final SDP letters, any letter with an IR number)

**Dresden**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>71004</b>	<b>- POWER UPRATE</b>	<b>2</b>			
2,3	IP 71004	Power Uprate		04/01/2006	12/31/2006	Other Routine
	<b>MOD5059</b>	<b>- MODIFICATION/50.59 INSPECTION</b>	<b>2</b>			
2,3	IP 7111102	Evaluation of Changes, Tests, or Experiments		09/18/2006	10/06/2006	Baseline Inspections
2,3	IP 7111117B	Permanent Plant Modifications		09/18/2006	10/06/2006	Baseline Inspections
	<b>TI</b>	<b>- 2515/169 MSPI VERIFICATION</b>	<b>2</b>			
2,3	IP 2515/169	Mitigating Systems Performance Index Verification		10/01/2006	12/31/2006	Safety Issues
	<b>ISI</b>	<b>- ISI BASELINE INSPECTION</b>	<b>1</b>			
2,3	IP 7111108G	Inservice Inspection Activities - BWR		11/13/2006	11/17/2006	Baseline Inspections
	<b>7112102</b>	<b>- ALARA OUTAGE INSP</b>	<b>1</b>			
2,3	IP 7112101	Access Control to Radiologically Significant Areas		11/13/2006	11/17/2006	Baseline Inspections
2,3	IP 7112102	ALARA Planning and Controls		11/13/2006	11/17/2006	Baseline Inspections
	<b>ISFSI</b>	<b>- ISFSI INSPECTION</b>	<b>1</b>			
2,3	IP 60854	Preoperational Testing Of An ISFSI		11/15/2006	12/15/2006	Other Routine
2,3	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating F		11/15/2006	12/15/2006	Other Routine
	<b>ISFSI</b>	<b>- ISFSI INSPECTION</b>	<b>4</b>			
2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		01/01/2007	03/31/2007	Other Routine
	<b>71122.02</b>	<b>- TRANSPORTATION AND RADWASTE</b>	<b>1</b>			
2,3	IP 7112202	Radioactive Material Processing and Transportation		01/08/2007	01/12/2007	Baseline Inspections
	<b>MAINT EF</b>	<b>- MAINTENANCE EFFECTIVENESS</b>	<b>1</b>			
2,3	IP 7111112B	Maintenance Effectiveness		02/26/2007	03/02/2007	Baseline Inspections
	<b>71122.01</b>	<b>- RADIOLOGICAL EFFLUENTS</b>	<b>1</b>			
2,3	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		03/05/2007	03/09/2007	Baseline Inspections
2,3	IP 71151	Performance Indicator Verification		03/05/2007	03/09/2007	Baseline Inspections
	<b>7111401</b>	<b>- EP EXERCISE &amp; PI INSP</b>	<b>1</b>			
2,3	IP 7111401	Exercise Evaluation		03/19/2007	03/23/2007	Baseline Inspections
2,3	IP 71151	Performance Indicator Verification		03/19/2007	03/23/2007	Baseline Inspections
	<b>FY 2007</b>	<b>- DRESDEN INIT PREP 04/2007</b>	<b>3</b>			
2	W90160	OL - INITIAL EXAM - DRESDEN - APR/MAY 2007		04/02/2007	04/06/2007	Not Applicable
	<b>CDBI</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	<b>5</b>			
2,3	IP 7111121	Component Design Bases Inspection		04/16/2007	05/25/2007	Baseline Inspections
	<b>FY 2007</b>	<b>- DRESDEN INIT EXAM 04&amp;05/2007</b>	<b>3</b>			
2	W90160	OL - INITIAL EXAM - DRESDEN - APR/MAY 2007		04/23/2007	05/04/2007	Not Applicable
	<b>71121.01</b>	<b>- RADIOLOGICAL ACCESS CONTROL</b>	<b>1</b>			
2,3	IP 7112101	Access Control to Radiologically Significant Areas		06/25/2007	06/29/2007	Baseline Inspections

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

**Dresden**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>71121.01 - RADIOLOGICAL ACCESS CONTROL</b>		<b>1</b>			
2,3	IP 71151	Performance Indicator Verification		06/25/2007	06/29/2007	Baseline Inspections
	<b>71121.02 - ALARA PROGRAM</b>		<b>1</b>			
2,3	IP 7112102	ALARA Planning and Controls		10/29/2007	11/02/2007	Baseline Inspections
2,3	IP 71151	Performance Indicator Verification		10/29/2007	11/02/2007	Baseline Inspections
	<b>ISI - ISI BASELINE INSPECTION</b>		<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		11/05/2007	11/09/2007	Baseline Inspections
	<b>71121.03 - INSTRUMENTATION &amp; SCBA</b>		<b>1</b>			
2,3	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/11/2008	02/15/2008	Baseline Inspections
	<b>FPI - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>			
2,3	IP 7111105T	Fire Protection [Triennial]		03/03/2008	03/21/2008	Baseline Inspections
	<b>HEATSINK - HEAT SINK INSPECTION</b>		<b>1</b>			
2,3	IP 7111107B	Heat Sink Performance		03/24/2008	03/28/2008	Baseline Inspections