

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 -  
DRESDEN NUCLEAR POWER STATION

Dear Mr. Crane:

On August 14, 2007, the NRC staff completed its performance review of the Dresden 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.

Dresden Unit 2 remains within the Regulatory Response Column of the NRC's Action Matrix based on one White PI having crossed the threshold from Green to White for the Scrams With Loss of Normal Heat Removal performance indicator. A supplemental inspection using inspection procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," was performed in February 2007 and although no findings were identified, a subsequent scram on May 4, 2007, kept the PI beyond the White threshold. No additional supplemental inspections are planned for this PI.

Dresden Unit 3 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 Program baseline inspections of Unit 3.

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. Additional inspections scheduled include: inspection using procedure 71004 "Power Uprate" to

inspect activities related to the steam dryer replacement on Unit 2, the triennial fire inspection, the biennial PI&R inspection, and the heat sink performance 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 A. H. Hsia for/**

Cynthia D. Pederson, Director  
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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NAME	M Ring:sls	C Pederson*AHH for				
DATE	08/29/2007	08/30/2007				

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Letter to Christopher M. Crane from Cynthia D. Pederson dated August 31, 2007

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DRESDEN NUCLEAR POWER STATION

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  
Operating Group  
Manager Licensing - Dresden and Quad Cities  
Senior Counsel, Nuclear, Mid-West Regional  
Operating Group  
Document Control Desk - Licensing  
Assistant Attorney General  
Illinois Emergency Management Agency  
State Liaison Officer  
Chairman, Illinois Commerce Commission  
Will County Executive  
Will County Sheriff  
Director, Will County Emergency  
Management Agency  
Mayor of Joliet  
City Manager of Joliet  
Kendall County Board Chairman  
Kendall County Sheriff  
Grundy County Board Chairman  
Grundy County Sheriff  
Grundy County Emergency Management Agency  
Mayor of Morris  
Minooka Village President  
Mayor of Coal City  
Mayor of Carbon Hill  
Mayor of Diamond  
Mayor of Braidwood  
Mayor of Wilmington  
Channahon Village President  
Channahon Village Administrator  
Mayor of Shorewood  
Shorewood Village Administrator  
Mayor of Elwood  
INPO

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DRESDEN NUCLEAR POWER STATION

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TEB

RAG1

JFW1

MMT

RidsNrrDirslpab

JLC1

MAS

KGO

JKH3

RML2

SAM9

SRI Dresden

DRPIII

DRSIII

PLB1

TXN

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

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	End	Inspection Type
<b>71004 - POWER UPRATE</b>		<b>2</b>			
IP 71004	Power Uprate		09/01/2007	12/31/2007	Other Routine
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		10/29/2007	11/02/2007	Baseline Inspections
IP 7112102	ALARA Planning and Controls		10/29/2007	11/02/2007	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		10/29/2007	11/02/2007	Baseline Inspections
<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>			
IP 7111108G	Inservice Inspection Activities - BWR		11/05/2007	11/09/2007	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/14/2008	01/18/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		01/14/2008	01/18/2008	Baseline Inspections
<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>1</b>			
IP 7111402	Alert and Notification System Testing		01/28/2008	02/01/2008	Baseline Inspections
IP 7111403	Emergency Response Organization Augmentation Testing		01/28/2008	02/01/2008	Baseline Inspections
IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		01/28/2008	02/01/2008	Baseline Inspections
IP 71151-EP01	Drill/Exercise Performance		01/28/2008	02/01/2008	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		01/28/2008	02/01/2008	Baseline Inspections
IP 71151-EP03	Alert & Notification System		01/28/2008	02/01/2008	Baseline Inspections
<b>BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>			
IP 7111105T	Fire Protection [Triennial]		01/28/2008	02/15/2008	Baseline Inspections
<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>3</b>			
IP 71152B	Identification and Resolution of Problems		03/10/2008	03/28/2008	Baseline Inspections
<b>OL EXAM - INITIAL LICENSE EXAM PREP (3/2008)</b>		<b>3</b>			
W90182	DRESDEN - INITIAL EXAM - FEB/MAR 2008		02/11/2008	02/15/2008	Not Applicable
<b>BI ENG - BIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>			
IP 7111107B	Heat Sink Performance		02/25/2008	02/29/2008	Baseline Inspections
<b>OL EXAM - DRESDEN INITIAL LICENSE EXAM (2008)</b>		<b>3</b>			
W90182	DRESDEN - INITIAL EXAM - FEB/MAR 2008		03/03/2008	03/14/2008	Not Applicable
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		05/05/2008	05/09/2008	Baseline Inspections
IP 7112102	ALARA Planning and Controls		05/05/2008	05/09/2008	Baseline Inspections
<b>BI OL - BIENNIAL REQUAL. PROGRAM INSPECTION</b>		<b>2</b>			
IP 7111111B	Licensed Operator Requalification Program		05/19/2008	05/23/2008	Baseline Inspections
<b>BI ENG - ENGINEERING MODIFICATIONS / 50.59 INSP.</b>		<b>2</b>			
IP 7111102	Evaluation of Changes, Tests, or Experiments		07/21/2008	08/08/2008	Baseline Inspections

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

Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
			Start	End	
<b>BI ENG - ENGINEERING MODIFICATIONS / 50.59 INSP.</b>		<b>2</b>			
IP 7111117B	Permanent Plant Modifications		07/21/2008	08/08/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASEINE INSPECTION</b>		<b>1</b>			
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		08/04/2008	08/08/2008	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		08/04/2008	08/08/2008	Baseline Inspections
<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>			
IP 7111108G	Inservice Inspection Activities - BWR		11/03/2008	11/21/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		11/10/2008	11/14/2008	Baseline Inspections
IP 7112102	ALARA Planning and Controls		11/10/2008	11/14/2008	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		11/10/2008	11/14/2008	Baseline Inspections