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

DISTRIBUTION:
See next page
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

DISTRIBUTION:
See next page
Letter to Christopher M. Crane from Cynthia D. Pederson dated August 31, 2007

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - 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
Letter to Christopher M. Crane from Cynthia D. Pederson dated August 31, 2007

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

DISTRIBUTION:
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

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Inspection Activity</th>
<th>Title</th>
<th>No. of Staff on Site</th>
<th>Planned Dates</th>
<th>Inspection Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>71004</td>
<td>- POWER UPRATE</td>
<td>Power Uprate</td>
<td>2</td>
<td>09/01/2007 - 12/31/2007</td>
<td>Other Routine</td>
</tr>
<tr>
<td>2</td>
<td>IP 71004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IP 7112101</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IP 7112102</td>
<td>ALARA Planning and Controls</td>
<td>1</td>
<td>10/29/2007 - 11/02/2007</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>BI ENG</td>
<td>- ENGINEERING INSERVICE INSPECTION</td>
<td>Inservice Inspection Activities - BWR</td>
<td>1</td>
<td>11/05/2007 - 11/09/2007</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7111108G</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI RP</td>
<td>- RADIATION PROTECTION BASELINE INSPECTION</td>
<td>Radiation Monitoring Instrumentation and Protective Equipment</td>
<td>1</td>
<td>01/14/2008 - 01/18/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 71151-BI01</td>
<td>Reactor Coolant System Activity</td>
<td>1</td>
<td>01/14/2008 - 01/18/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>BI ENG</td>
<td>- TRIENNIAL FIRE PROTECTION INSPECTION</td>
<td>Fire Protection [Triennial]</td>
<td>3</td>
<td>01/28/2008 - 02/15/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7111105T</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI PI&amp;R</td>
<td>- BIENNIAL PI&amp;R INSPECTION</td>
<td>Identification and Resolution of Problems</td>
<td>3</td>
<td>03/10/2008 - 03/28/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 71152B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>W90182</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI ENG</td>
<td>- BIENNIAL HEAT SINK INSPECTION</td>
<td>Heat Sink Performance</td>
<td>1</td>
<td>02/25/2008 - 02/29/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7111107B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OL EXAM</td>
<td>- DRESDEN INITIAL LICENSE EXAM (2008)</td>
<td>DRESDEN - INITIAL EXAM - FEB/MAR 2008</td>
<td>3</td>
<td>03/03/2008 - 03/14/2008</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>2</td>
<td>W90182</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI RP</td>
<td>- RADIATION PROTECTION BASELINE INSPECTION</td>
<td>Access Control to Radiologically Significant Areas</td>
<td>1</td>
<td>05/05/2008 - 05/09/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7112101</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI OL</td>
<td>- BIENNIAL REQUAL. PROGRAM INSPECTION</td>
<td>Licensed Operator Requalification Program</td>
<td>2</td>
<td>05/19/2008 - 05/23/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7111111B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI ENG</td>
<td>- ENGINEERING MODIFICATIONS / 50.59 INS.</td>
<td>Evaluation of Changes, Tests, or Experiments</td>
<td>2</td>
<td>07/21/2008 - 08/08/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7111102</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.
### Dresden
**Inspection / Activity Plan**
**09/01/2007 - 12/31/2008**

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Inspection Activity</th>
<th>Title</th>
<th>No. of Staff on Site</th>
<th>Planned Dates</th>
<th>Inspection Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BI ENG</td>
<td>ENGINEERING MODIFICATIONS / 50.59 INSP.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IP 711117B</td>
<td>Permanent Plant Modifications</td>
<td></td>
<td>07/21/2008 08/08/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td></td>
<td>BI ENG</td>
<td>RADIATION PROTECTION BASELINE INSPECTION</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IP 7112203</td>
<td>Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program</td>
<td></td>
<td>08/04/2008 08/08/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 71151-BI01</td>
<td>Reactor Coolant System Activity</td>
<td></td>
<td>08/04/2008 08/08/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td></td>
<td>BI ENG</td>
<td>ENGINEERING INSERVICE INSPECTION</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IP 7111108G</td>
<td>Inservice Inspection Activities - BWR</td>
<td></td>
<td>11/03/2008 11/21/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td></td>
<td>BI RP</td>
<td>RADIATION PROTECTION BASELINE INSPECTION</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IP 7112101</td>
<td>Access Control to Radiologically Significant Areas</td>
<td></td>
<td>11/10/2008 11/14/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 7112102</td>
<td>ALARA Planning and Controls</td>
<td></td>
<td>11/10/2008 11/14/2008</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>2</td>
<td>IP 71151-OR01</td>
<td>Occupational Exposure Control Effectiveness</td>
<td></td>
<td>11/10/2008 11/14/2008</td>
<td>Baseline Inspections</td>
</tr>
</tbody>
</table>

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