

August 30, 2005

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 -
CLINTON POWER STATION

Dear Mr. Crane:

On August 9, 2005, the NRC staff completed its performance review of the Clinton Power Station for the first half of the calendar year 2005 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 "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 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 only reactor oversight process (ROP) baseline inspections at your facility through March 31, 2007.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through March 31, 2007. Please note that the plan contains a Safety System Design and Performance inspection scheduled for November 2005 and a Problem Identification and Resolution inspection scheduled for March 2007. The inspection plan is provided to minimize the resource impact on your staff and 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. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

C. Crane

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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 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 No. 50-461
License No. NPF-62

Enclosure: Clinton Power Station Inspection/ Activity Plan

See Attached Distribution

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cc w/encl: Site Vice President - Clinton Power Station
Plant Manager - Clinton Power Station
Regulatory Assurance Manager - Clinton Power Station
Chief Operating Officer
Senior Vice President - Nuclear Services
Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Manager Licensing - Clinton Power Station
Senior Counsel, Nuclear, Mid-West Regional Operating Group
Document Control Desk - Licensing
Illinois Department of Nuclear Safety
Clinton Police Department
Mayor of Clinton
Mayor of Weldon
DeWitt County Board Chairman
DeWitt County Sheriff
Coordinator, DeWitt County Emergency
Preparedness
Mayor of Wapella
McLean County Board Chairman
McLean County Sheriff
Director, McLean County ESDA
Piatt County Board Chairman
Piatt County Sheriff
Director, Piatt County ESDA
Macon County Board Chairman
Macon County Sheriff
Director, Macon County ESDA
INPO

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Clinton
Inspection / Activity Plan
09/01/2005 - 03/31/2007

| Unit Number | Inspection Activity | Title | No. of Staff on Site | Planned Dates | | Inspection Type |
|----------------|---------------------|--|-------------------------|---------------|------------|----------------------|
| | | | | Start | End | |
| | 71114 | - EP EXERCISE & EP PI INSP | 2 | | | |
| 1 | IP 7111401 | Exercise Evaluation | | 10/03/2005 | 10/07/2005 | Baseline Inspections |
| 1 | IP 71151 | Performance Indicator Verification | | 10/03/2005 | 10/07/2005 | Baseline Inspections |
| | SSDPC | - SAFETY SYSTEM DESIGN & PERFORMANCE | 5 | | | |
| 1 | IP 7111121 | Safety System Design and Performance Capability | | 11/14/2005 | 12/02/2005 | Baseline Inspections |
| | 71111.11 | - LIC OPERATOR REQUAL PROGRAM EVALUATION | 3 | | | |
| 1 | IP 7111111B | Licensed Operator Requalification Program | | 11/14/2005 | 11/18/2005 | Baseline Inspections |
| | IP 71121 | - RAD ACCESS CONTROL & ALARA | 1 | | | |
| 1 | IP 7112101 | Access Control to Radiologically Significant Areas | | 11/28/2005 | 12/02/2005 | Baseline Inspections |
| 1 | IP 7112102 | ALARA Planning and Controls | | 11/28/2005 | 12/02/2005 | Baseline Inspections |
| | ISI | - CLINTON ISI INSPECTION | 1 | | | |
| 1 | IP 7111108G | Inservice Inspection Activities - BWR | | 02/06/2006 | 02/10/2006 | Baseline Inspections |
| | 7112102 | - ALARA OUTAGE INSP | 2 | | | |
| 1 | IP 7112102 | ALARA Planning and Controls | | 02/06/2006 | 02/10/2006 | Baseline Inspections |
| | 71114 | - BASELINE EP INSPECTION | 1 | | | |
| 1 | IP 7111402 | Alert and Notification System Testing | | 03/20/2006 | 03/24/2006 | Baseline Inspections |
| 1 | IP 7111403 | Emergency Response Organization Augmentation Testing | | 03/20/2006 | 03/24/2006 | Baseline Inspections |
| 1 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | | 03/20/2006 | 03/24/2006 | Baseline Inspections |
| 1 | IP 71151 | Performance Indicator Verification | | 03/20/2006 | 03/24/2006 | Baseline Inspections |
| | HS | - HEAT SINK INSPECTION | 1 | | | |
| 1 | IP 7111107B | Heat Sink Performance | | 03/27/2006 | 03/31/2006 | Baseline Inspections |
| | 7112202 | - TRANSPORTATION & RADWASTE | 1 | | | |
| 1 | IP 7112202 | Radioactive Material Processing and Transportation | | 05/22/2006 | 05/26/2006 | Baseline Inspections |
| | 7112101 | - RADIOLOGICAL ACCESS CONTROL | 1 | | | |
| 1 | IP 7112101 | Access Control to Radiologically Significant Areas | | 08/28/2006 | 09/01/2006 | Baseline Inspections |
| 1 | IP 71151 | Performance Indicator Verification | | 08/28/2006 | 09/01/2006 | Baseline Inspections |
| | M50.59 | - MOD 50.59 INSPECTION | 2 | | | |
| 1 | IP 7111102 | Evaluation of Changes, Tests, or Experiments | | 09/18/2006 | 10/06/2006 | Baseline Inspections |
| | ME | - MAINTENANCE RULE INSPECTION | 1 | | | |
| 1 | IP 7111112B | Maintenance Effectiveness | | 11/13/2006 | 11/17/2006 | Baseline Inspections |
| | 7112201 | - RADIOLOGICAL EFFLUENTS | 1 | | | |
| 1 | IP 7112201 | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems | | 12/11/2006 | 12/15/2006 | Baseline Inspections |
| 1 | IP 71151 | Performance Indicator Verification | | 12/11/2006 | 12/15/2006 | Baseline Inspections |
| | PI&R | - PROBLEM IDENTIFICATION AND RESOLUTION | 4 | | | |
| 1 | IP 71152B | Identification and Resolution of Problems | | 03/24/2007 | 04/11/2007 | Baseline Inspections |

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