

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

C. Crane

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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	
	<b>71114</b>	<b>- EP EXERCISE &amp; EP PI INSP</b>	<b>2</b>			
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
	<b>SSDPC</b>	<b>- SAFETY SYSTEM DESIGN &amp; PERFORMANCE</b>	<b>5</b>			
1	IP 7111121	Safety System Design and Performance Capability		11/14/2005	12/02/2005	Baseline Inspections
	<b>71111.11</b>	<b>- LIC OPERATOR REQUAL PROGRAM EVALUATION</b>	<b>3</b>			
1	IP 7111111B	Licensed Operator Requalification Program		11/14/2005	11/18/2005	Baseline Inspections
	<b>IP 71121</b>	<b>- RAD ACCESS CONTROL &amp; ALARA</b>	<b>1</b>			
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
	<b>ISI</b>	<b>- CLINTON ISI INSPECTION</b>	<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		02/06/2006	02/10/2006	Baseline Inspections
	<b>7112102</b>	<b>- ALARA OUTAGE INSP</b>	<b>2</b>			
1	IP 7112102	ALARA Planning and Controls		02/06/2006	02/10/2006	Baseline Inspections
	<b>71114</b>	<b>- BASELINE EP INSPECTION</b>	<b>1</b>			
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
	<b>HS</b>	<b>- HEAT SINK INSPECTION</b>	<b>1</b>			
1	IP 7111107B	Heat Sink Performance		03/27/2006	03/31/2006	Baseline Inspections
	<b>7112202</b>	<b>- TRANSPORTATION &amp; RADWASTE</b>	<b>1</b>			
1	IP 7112202	Radioactive Material Processing and Transportation		05/22/2006	05/26/2006	Baseline Inspections
	<b>7112101</b>	<b>- RADIOLOGICAL ACCESS CONTROL</b>	<b>1</b>			
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
	<b>M50.59</b>	<b>- MOD 50.59 INSPECTION</b>	<b>2</b>			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		09/18/2006	10/06/2006	Baseline Inspections
	<b>ME</b>	<b>- MAINTENANCE RULE INSPECTION</b>	<b>1</b>			
1	IP 7111112B	Maintenance Effectiveness		11/13/2006	11/17/2006	Baseline Inspections
	<b>7112201</b>	<b>- RADIOLOGICAL EFFLUENTS</b>	<b>1</b>			
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
	<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	<b>4</b>			
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.