



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

September 2, 2008

Mr. Charles G. Pardee  
Chief Nuclear Officer  
AmerGen Energy Company, LLC  
4300 Winfield Road  
Warrenville IL 60555

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
CLINTON POWER STATION**

Dear Mr. Pardee:

On August 14, 2008, the NRC staff completed its performance review of the Clinton Power Station for the first half of the calendar year 2008 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.

Plant performance for the last three quarters 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.

While plant performance for the last three quarters is within the Licensee Response column of the Action Matrix, there was a safety significant inspection finding affecting the first quarter of the assessment cycle. Specifically, Clinton Power Station was in the Regulatory Response Column of the NRC's Action Matrix for the third quarter of calendar year 2007 based on one White finding in the Mitigating Systems Cornerstone for failure to adequately address vortexing in the reactor core isolation cooling (RCIC) storage tank and its effect on operability of the high pressure core spray (HPCS) and RCIC system. On June 6, 2007, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection to review the actions taken to address the White finding in the Mitigating Systems Cornerstone. We conducted supplemental inspection procedure 95001 during the week of September 4, 2007. Based on the results of this inspection, no findings of significance were identified.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2009. 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: biennial problem identification and resolution, engineering modifications/50.59, and initial license examination. 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).

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  
Projects Branch 1  
Division of Reactor Projects

Docket No. 50-461  
License No. NPF-62

Enclosure: Clinton Power Station Inspection/Activity Plan

DISTRIBUTION:  
See next page

Letter to C. Pardee from M. Ring dated September 2, 2008

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
CLINTON POWER STATION

cc w/encl: Site Vice President - Clinton Power Station  
Plant Manager - Clinton Power Station  
Regulatory Assurance Manager - Clinton Power Station  
Chief Operating Officer and Senior Vice President  
Senior Vice President - Midwest Operations  
Senior Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director - Licensing and Regulatory Affairs  
Manager Licensing - Clinton, Dresden and Quad Cities  
Associate General Counsel  
Document Control Desk - Licensing  
Assistant Attorney General  
J. Klinger, State Liaison Officer  
Illinois Emergency Management Agency  
Chairman, Illinois Commerce Commission  
Clinton Police Department  
Mayor of Clinton  
Mayor of Weldon  
DeWitt County Board Chairman  
DeWitt County Sheriff  
EMA Coordinator, DeWitt County  
Mayor of Wapella  
McLean County Board Chairman  
McLean County Sheriff  
EMA Coordinator, McLean County  
Piatt County Board Chairman  
Piatt County Sheriff  
EMA Coordinator, Piatt County  
Macon County Board Chairman  
Macon County Sheriff  
EMA Coordinator, Macon County  
G. Mortensen, INPO

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CLINTON POWER STATION

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Tamara Bloomer

RidsNrrDorLpl3-2

RidsNrrPMClinton Resource

RidsNrrDirslpab Resource

James Caldwell

Mark Satorius

Kenneth Obrien

Jared Heck

Allan Barker

DRSIII

DRPIII

Patricia Buckley

Tammy Tomczak

[ROPreports@nrc.gov](mailto:ROPreports@nrc.gov)

**Clinton**  
**Inspection / Activity Plan**  
**09/01/2008 - 12/31/2009**

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	End	Inspection Type
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/20/2008	10/24/2008	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112202	Radioactive Material Processing and Transportation		01/05/2009	01/09/2009	Baseline Inspections
<b>BI ENG</b>	<b>- ENGINEERING MODIFICATIONS / 50.59 INSP.</b>	<b>3</b>			
IP 711117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications		01/26/2009	02/13/2009	Baseline Inspections
<b>BI PI&amp;R</b>	<b>- BIENNIAL PI&amp;R INSPECTION</b>	<b>4</b>			
IP 71152B	Identification and Resolution of Problems		03/30/2009	04/17/2009	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		05/04/2009	05/08/2009	Baseline Inspections
IP 7112102	ALARA Planning and Controls		05/04/2009	05/08/2009	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		06/08/2009	06/12/2009	Generic Safety Inspectio
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		06/08/2009	06/12/2009	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		08/03/2009	08/07/2009	Generic Safety Inspectio
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		08/03/2009	08/07/2009	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		08/03/2009	08/07/2009	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		08/03/2009	08/07/2009	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		08/03/2009	08/07/2009	Baseline Inspections
<b>OL EXAM</b>	<b>- OPERATOR LICENSING EXAM</b>	<b>3</b>			
W90205	OL - INITIAL EXAM - AUGUST 2009 - CLIN		08/03/2009	08/07/2009	Not Applicable
W90205	OL - INITIAL EXAM - AUGUST 2009 - CLIN		08/24/2009	09/04/2009	Not Applicable
<b>BI OL</b>	<b>- BIENNIAL REQUAL. PROGRAM INSPECTION</b>	<b>2</b>			
IP 7111111B	Licensed Operator Requalification Program		11/09/2009	11/13/2009	Baseline Inspections
<b>BI EP</b>	<b>- EP EXERCISE INSPECTION / PI VERIFICATION</b>	<b>1</b>			
IP 7111401	Exercise Evaluation		11/16/2009	11/20/2009	EP Baseline Inspection
IP 71151-EP01	Drill/Exercise Performance		11/16/2009	11/20/2009	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		11/16/2009	11/20/2009	Baseline Inspections
IP 71151-EP03	Alert & Notification System		11/16/2009	11/20/2009	Baseline Inspections