



**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 and
Senior Vice President
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville IL 60555

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
BRAIDWOOD STATION, UNITS 1 AND 2**

Dear Mr. Pardee:

On August 14, 2008, the NRC staff completed its performance review of Braidwood Station, Units 1 and 2, 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 Related Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Braidwood Units 1 and 2 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.

The enclosed inspection plan details the inspections, less those related to physical protection 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. 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). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

C. Pardee

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If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 630-829-9620 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Richard A. Skokowski, Chief
Branch 3
Division of Reactor Projects

Docket Nos. 50-456; 50-457
License Nos. NPF-72; NPF-77

Enclosure: Braidwood Inspection/Activity Plan

DISTRIBUTION
See next page

Letter to C. Pardee from R. Skokowski dated September 2, 2008

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
BRAIDWOOD STATION, UNITS 1 AND 2

cc w/encl: Site Vice President - Braidwood Station
Plant Manager - Braidwood Station
Regulatory Assurance Manager - Braidwood 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 - Braidwood, Byron and LaSalle
Associate General Counsel
Document Control Desk - Licensing
Assistant Attorney General
J. Klinger, State Liaison Officer,
Illinois Emergency Management Agency
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
Mayor of Braceville
Mayor of Kankakee
G. Mortensen, INPO

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BRAIDWOOD STATION, UNITS 1 AND 2

DISTRIBUTION:

RidsNrrDorLp13-2

Tamara Bloomer

RidsNrrPMBraidwood Resource

RidsNrrDirslpab Resource

James Caldwell

Mark Satorius

Kenneth O'Brien

Jared Heck

Allan Barker

DRPIII

DRSIII

Patricia Buckley

Tammy Tomczak

ROPreports@nrc.gov (inspection reports, final SDP letters, any letter with an IR number)

C. Pardee

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Sincerely,

Richard A. Skokowski, Chief
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Division of Reactor Projects

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OFFICE	RIII		RIII					
NAME	RJones:ntp		RSkokowski					
DATE	08/21/08		08/21/08					

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BRAI
Inspection / Activity Plan
09/01/2008 - 12/31/2009

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
BI ENG	- ENGINEERING MODIFICATIONS / 50.59 INSP.	4			
IP 711117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications		08/25/2008	09/12/2008	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112202	Radioactive Material Processing and Transportation		09/22/2008	09/26/2008	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		09/22/2008	09/26/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		09/22/2008	09/26/2008	Baseline Inspections
BI PI&R	- BIENNIAL PI&R INSPECTION	6			
IP 71152B	Identification and Resolution of Problems		10/06/2008	10/24/2008	Baseline Inspections
BI EP	- EP EXERCISE INSPECTION / PI VERIFICATION	3			
IP 7111401	Exercise Evaluation		11/17/2008	11/21/2008	EP Baseline Inspection
IP 71151-EP01	Drill/Exercise Performance		11/17/2008	11/21/2008	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		11/17/2008	11/21/2008	Baseline Inspections
IP 71151-EP03	Alert & Notification System		11/17/2008	11/21/2008	Baseline Inspections
BI ENG	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
IP 7111105T	Fire Protection [Triennial]		01/26/2009	02/13/2009	Baseline Inspections
BI ENG	- FIRE PROTECTION INFO GATHERING TRIP	3			
IP 7111105T	Fire Protection [Triennial]		01/12/2009	01/16/2009	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/23/2009	02/27/2009	Baseline Inspections
BI ENG	- ENGINEERING INSERVICE INSPECTION	2			
IP 7111108P	Inservice Inspection Activities - PWR		04/06/2009	04/24/2009	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112101	Access Control to Radiologically Significant Areas		04/13/2009	04/17/2009	Baseline Inspections
IP 7112102	ALARA Planning and Controls		04/13/2009	04/17/2009	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		06/22/2009	06/26/2009	Generic Safety Inspectio
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		06/22/2009	06/26/2009	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		06/22/2009	06/26/2009	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		06/22/2009	06/26/2009	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		06/22/2009	06/26/2009	Baseline Inspections
BI OL	- BIENNIAL REQUAL. PROGRAM INSPECTION	2			
IP 7111111B	Licensed Operator Requalification Program		08/24/2009	08/28/2009	Baseline Inspections
OL EXAM	- OPERATOR LICENSING EXAM	3			
W90172	OL - INITIAL EXAM - NOV/DEC 2007 - BRAI		09/14/2009	09/18/2009	Not Applicable
W90172	OL - INITIAL EXAM - NOV/DEC 2007 - BRAI		10/05/2009	10/16/2009	Not Applicable

BRAI
Inspection / Activity Plan
09/01/2008 - 12/31/2009

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End		Inspection Type
BI EP - EP ROUTINE INSPECTION / PI VERIFICATION		1			
IP 7111402	Alert and Notification System Testing		10/05/2009	10/09/2009	EP Baseline Inspection
IP 7111403	Emergency Response Organization Augmentation Testing		10/05/2009	10/09/2009	EP Baseline Inspection
IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		10/05/2009	10/09/2009	EP Baseline Inspection
IP 71151-EP01	Drill/Exercise Performance		10/05/2009	10/09/2009	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		10/05/2009	10/09/2009	Baseline Inspections
IP 71151-EP03	Alert & Notification System		10/05/2009	10/09/2009	Baseline Inspections
BI ENG - ENGINEERING INSERVICE INSPECTION		1			
IP 7111108P	Inservice Inspection Activities - PWR		10/12/2009	10/30/2009	Baseline Inspections
BI RP - RADIATION PROTECTION BASELINE INSPECTION		1			
IP 7112101	Access Control to Radiologically Significant Areas		10/19/2009	10/23/2009	Baseline Inspections
IP 7112102	ALARA Planning and Controls		10/19/2009	10/23/2009	Baseline Inspections