



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

September 2, 2008

Mr. David A. Christian
President and Chief Nuclear Officer
Dominion Energy Kewaunee, Inc.
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

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

Dear Mr. Christian:

On August 13, 2008, the NRC staff completed its performance review of Kewaunee 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 most recent quarter at Kewaunee Power Station 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.

In our 2007 annual assessment letter dated March 3, 2008 (ADAMS Accession Number ML080600292), we advised you of substantive cross-cutting issues in the areas of problem identification and resolution and human performance. These were repetitive longstanding issues that were first identified in the annual assessment letter for 2004, dated March 2, 2005, and the 2006 mid-cycle performance review letter, dated August 31, 2006, respectively. For the current 2008 mid-cycle performance review period, because the number of findings with the same cross-cutting aspect in the area of problem identification and resolution (PI&R) was reduced and the results of the problem identification and resolution team inspection completed in June 2008 were favorable, we are closing the PI&R substantive cross-cutting issue. For the human performance substantive cross-cutting issue, the number of findings has also been reduced. Consequently, we are closing this issue.

The enclosed inspection plan details the inspections, including baseline and other infrequently conducted 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. 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 System (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 Mike Kunowski at (630) 829-9618 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Cynthia D. Pederson, Director
Division of Reactor Projects

Docket No. 50-305
License No. DPR-43

Enclosure: Kewaunee Inspection/Activity Plan

DISTRIBUTION:
See next page

Letter to D. Christian from C. Pederson dated September 2, 2008

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

cc w/encl: S. Scace, Site Vice President
M. Wilson, Director Nuclear Safety & Licensing
C. Funderburk, Director, Nuclear Licensing
and Operations Support
T. Breene, Manager, Nuclear Licensing
L. Cuoco, Senior Counsel
D. Zellner, Chairman, Town of Carlton
J. Kitsembel, Public Service Commission of Wisconsin
P. Schmidt, State Liaison Officer, State of Wisconsin
Mayor of Kewaunee
City Council President
Chair, Manitowoc County Board
County Executive
Chair, Kewaunee County Board
Director, Manitowoc County Emergency
Management Agency
Director, Kewaunee County Emergency
Management Agency
City Manager of Two Rivers
Village President of Mishicot
G. Mortensen, INPO

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OFFICE	RIII	RIII	RIII	RIII
NAME	MKunowski:cms	CPederson		
DATE	8/28/08	8/29/08		

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Letter to D. Christian from C. Pederson dated September 2, 2008

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KEWAUNEE POWER STATION

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

Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
			Start	End	
ISFSI	- ISFSI INSPECTION	1			
IP 60855	Operation Of An ISFSI		07/01/2008	09/30/2008	Other Routine
IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		07/01/2008	09/30/2008	Other Routine
BI ENG	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
IP 7111105T	Fire Protection [Triennial]		08/25/2008	09/12/2008	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/03/2008	11/07/2008	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		11/03/2008	11/07/2008	Baseline Inspections
TI	- TEMPORARY INSTRUCTION 2515/171	2			
IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		11/17/2008	11/21/2008	Generic Safety Inspectio
BI OL	- BIENNIAL REQUAL. PROGRAM INSPECTION	2			
IP 7111111B	Licensed Operator Requalification Program		11/17/2008	11/21/2008	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112102	ALARA Planning and Controls		01/12/2009	01/16/2009	Baseline Inspections
OL EXAM	- OPERATOR LICENSING EXAM	3			
W90181	OL - INITIAL EXAM - APRIL 2009 - KEWA		03/23/2009	03/27/2009	Not Applicable
W90181	OL - INITIAL EXAM - APRIL 2009 - KEWA		04/13/2009	04/24/2009	Not Applicable
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112101	Access Control to Radiologically Significant Areas		04/20/2009	04/24/2009	Baseline Inspections
RENEWAL	- LICENSE RENEWAL INSPECTION	5			
IP 71002	License Renewal Inspection		04/20/2009	05/08/2009	License Renewal Insper
ISFSI	- ISFSI - CRANE, DRY RUN, INITIAL LOADING	1			
IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants		05/01/2009	09/30/2009	Other Routine
IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/01/2009	09/30/2009	Other Routine
BI EP	- EP EXERCISE INSPECTION / PI VERIFICATION	1			
IP 7111401	Exercise Evaluation		06/22/2009	06/26/2009	EP Baseline Inspection
IP 71151-EP01	Drill/Exercise Performance		06/22/2009	06/26/2009	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		06/22/2009	06/26/2009	Baseline Inspections
IP 71151-EP03	Alert & Notification System		06/22/2009	06/26/2009	Baseline Inspections
BI ENG	- COMPONENT DESIGN BASES INSPECTION	6			
IP 7111121	Component Design Bases Inspection		07/13/2009	08/13/2009	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112202	Radioactive Material Processing and Transportation		07/13/2009	07/17/2009	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		07/13/2009	07/17/2009	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		07/13/2009	07/17/2009	Baseline Inspections

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

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End		Inspection Type
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 71151-PR01	RETS/ODCM Radiological Effluent		07/13/2009	07/17/2009	Baseline Inspections
BI ENG	- ENGINEERING INSERVICE INSPECTION	2			
IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds		09/28/2009	10/30/2009	Generic Safety Inspecti
IP 7111108P	Inservice Inspection Activities - PWR		09/28/2009	10/30/2009	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		10/05/2009	10/16/2009	Generic Safety Inspecti
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		10/05/2009	10/16/2009	Baseline Inspections
BI ENG	- TRIENNIAL HEAT SINK INSPECTION	1			
IP 7111107B	Heat Sink Performance		11/16/2009	11/20/2009	Baseline Inspections