



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

September 1, 2009

Mr. David A. Heacock
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. Heacock:

On August 20, 2009, the NRC staff completed its performance review of Kewaunee Power Station. Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from July 1, 2008, through June 30, 2009. 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 was within the Regulatory Response column of the NRC's Action Matrix, based on a White inspection finding from the third quarter of 2008 for two Emergency Action Levels containing incorrect setpoint values for declaring Alert emergencies. The agency completed a supplemental 95001 inspection on June 29, 2009. The inspection revealed no additional findings of safety significance and closed the White Emergency Preparedness inspection finding. Therefore, the Kewaunee Power Station returned to the Licensee Response column in the third quarter of 2009.

The enclosed inspection plan details the inspections, less those related to security scheduled through December 31, 2010. 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). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

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 Mike Kunowski at (630) 829-9618 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

K. Steven West, Director
Division of Reactor Projects

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

Enclosure: Kewaunee Power Station Inspection/Activity Plan

DISTRIBUTION:
See next page

Letter to D. Heacock from K. West dated September 1, 2009

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

D. Heacock

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OFFICE	RIII							
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DATE	08/28/09	08/31/09						

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KEWAUNEE POWER STATION

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Kewaunee
Inspection / Activity Plan
09/01/2009 - 12/31/2010

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		ISFSI - ISFSI - CRANE, DRY RUN, INITIAL LOADING		1
05/01/2009	09/30/2009	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
05/01/2009	09/30/2009	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		RENEWAL - LICENSE RENEWAL INSPECTION		6
08/17/2009	09/04/2009	IP 71002	License Renewal Inspection	
		BI ENG - INSERVICE INSPECTION & TI-172 REVISION 1		2
09/06/2009	10/28/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
09/06/2009	10/28/2009	IP 7111108P	Inservice Inspection Activities - PWR	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
10/05/2009	10/09/2009	IP 7112101	Access Control to Radiologically Significant Areas	
10/05/2009	10/09/2009	IP 7112102	ALARA Planning and Controls	
		BI ENG - TRIENNIAL HEAT SINK INSPECTION		1
11/16/2009	11/20/2009	IP 7111107T	Heat Sink Performance	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
11/30/2009	12/04/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
		BI ENG - ENGINEERING MODIFICATIONS / 50.59		3
01/25/2010	02/12/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
02/08/2010	02/12/2010	IP 7112101	Access Control to Radiologically Significant Areas	
02/08/2010	02/12/2010	IP 7112102	ALARA Planning and Controls	
		BI ENG - HEAD DROP ANALYSES		1
02/22/2010	03/12/2010	IP 7111120	Refueling and Other Outage Activities	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
05/03/2010	05/07/2010	IP 7112101	Access Control to Radiologically Significant Areas	
05/03/2010	05/07/2010	IP 7112102	ALARA Planning and Controls	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
08/09/2010	08/13/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
08/09/2010	08/13/2010	IP 71151-BI01	Reactor Coolant System Activity	
08/09/2010	08/13/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
08/09/2010	08/13/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		IP71152 - PI&R TEAM INSPECTION		6
08/09/2010	09/03/2010	IP 71152B	Identification and Resolution of Problems	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
11/01/2010	11/05/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	

Kewaunee
Inspection / Activity Plan
09/01/2009 - 12/31/2010

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI EP	- EP ROUTINE INSPECTION / PI VERIFICATION	2
11/01/2010	11/05/2010	IP 7111402	Alert and Notification System Testing	
11/01/2010	11/05/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
11/01/2010	11/05/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
11/01/2010	11/05/2010	IP 71151-EP01	Drill/Exercise Performance	
11/01/2010	11/05/2010	IP 71151-EP02	ERO Drill Participation	
11/01/2010	11/05/2010	IP 71151-EP03	Alert & Notification System	
		BI OL	- LIC. OPERATOR REQUAL. PROGRAM EVALUATION	2
11/15/2010	11/19/2010	IP 7111111B	Licensed Operator Requalification Program	