



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2010

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 4, 2010, the NRC staff completed its performance review of Kewaunee Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. 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.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. 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.

D. Heacock

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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 Website 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) 829-9618 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Michael A. Kunowski, Chief  
Branch 5  
Division of Reactor Projects

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

Enclosure: Kewaunee Power Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

D. Heacock

-2-

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Letter to D. Heacock from M. Kunowski dated September 1, 2010

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

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**Kewaunee**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>IP71152 - BIENNIAL PI&amp;R INSPECTION</b>		<b>5</b>
08/16/2010	09/03/2010	IP 71152B	Identification and Resolution of Problems	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/18/2010	10/22/2010	IP 71124.07	Radiological Environmental Monitoring Program	
10/18/2010	10/22/2010	IP 71151-BI01	Reactor Coolant System Activity	
10/18/2010	10/22/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
10/18/2010	10/22/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
11/01/2010	11/05/2010	IP 7111402	Alert and Notification System Testing	
11/01/2010	11/05/2010	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
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	
		<b>BI OL - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
12/13/2010	12/17/2010	IP 7111111B	Licensed Operator Requalification Program	
		<b>OL PREP - KEWAUNEE INIT PREP - 01/2011</b>		<b>3</b>
01/17/2011	01/21/2011	W90231	OL - INITIAL EXAM - FEB 2011 - KEWA	
		<b>OL EXAM - KEWAUNEE INIT EXAM 02/2011</b>		<b>3</b>
02/07/2011	02/18/2011	W90231	OL - INITIAL EXAM - FEB 2011 - KEWA	
		<b>BI ENG - INSERVICE INSPECTION</b>		<b>1</b>
02/26/2011	03/26/2011	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
02/28/2011	03/04/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
02/28/2011	03/04/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
02/28/2011	03/04/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
06/06/2011	06/10/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
06/06/2011	06/10/2011	IP 71151-BI01	Reactor Coolant System Activity	
06/06/2011	06/10/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
06/06/2011	06/10/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>2</b>
08/01/2011	08/31/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	

**Kewaunee**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>
09/06/2011	10/07/2011	IP 7111105T	Fire Protection [Triennial]	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/12/2011	09/16/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
09/12/2011	09/16/2011	IP 71124.02	Occupational ALARA Planning and Controls	
09/12/2011	09/16/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
09/12/2011	09/16/2011	IP 71124.04	Occupational Dose Assessment	
		<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>3</b>
10/03/2011	10/07/2011	IP 7111401	Exercise Evaluation	
10/03/2011	10/07/2011	IP 71151-EP01	Drill/Exercise Performance	
10/03/2011	10/07/2011	IP 71151-EP02	ERO Drill Participation	
10/03/2011	10/07/2011	IP 71151-EP03	Alert & Notification System	
		<b>STRIKE - STRIKE CONTINGENCY - OPS/MAINT/RP</b>		<b>2</b>
10/01/2011	11/11/2011	IP 92709	Licensee Strike Contingency Plans	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
12/05/2011	12/09/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	