



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 5, 2012

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: ANNUAL ASSESSMENT LETTER FOR KEWAUNEE POWER STATION  
(REPORT 05000305/2011007)**

Dear Mr. Heacock:

On February 15, 2012, the NRC completed its end-of-cycle performance review of the Kewaunee Power Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2011, through December 31, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, the Kewaunee Power Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at the Kewaunee Power Station during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range. Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 9 months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

We also plan on conducting Temporary Instruction 2515/185, "Followup on the Industry's Ground Water Protection Initiative."

In accordance with 10 CFR 2.390 of the NRC's Rules of Practice, a copy of this letter will be 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).

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 Kenneth Riemer at 630-829-9628 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Kenneth Riemer, Branch Chief  
Branch 2  
Division of Reactor Projects

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

Enclosure: Kewaunee Power Station Inspection/Activity Plan

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Letter to D. Heacock from K. Riemer dated March 5, 2012

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(REPORT 05000305/2011007)

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**Kewaunee**  
**Inspection / Activity Plan**  
**01/01/2012 - 06/30/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>TI-182 - TI-2515/182 PHASE I - BURIED PIPING</b>		<b>1</b>
01/30/2012	02/03/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
		<b>BI ISI - INSERVICE INSPECTION</b>		<b>1</b>
04/09/2012	05/07/2012	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>RENEWAL - LICENSE RENEWAL INSPECTION 71003-PHASE 1</b>		<b>2</b>
04/09/2012	05/07/2012	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
04/23/2012	04/27/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
04/23/2012	04/27/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
05/14/2012	05/18/2012	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
07/30/2012	08/03/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
07/30/2012	08/03/2012	IP 71151-BI01	Reactor Coolant System Activity	
07/30/2012	08/03/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
07/30/2012	08/03/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/10/2012	09/14/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
09/10/2012	09/14/2012	IP 71124.04	Occupational Dose Assessment	
		<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>1</b>
09/10/2012	09/14/2012	IP 7111402	Alert and Notification System Testing	
09/10/2012	09/14/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
09/10/2012	09/14/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
09/10/2012	09/14/2012	IP 71151	Performance Indicator Verification	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>3</b>
09/10/2012	09/28/2012	IP 71152B	Problem Identification and Resolution	
		<b>BI CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>6</b>
10/01/2012	11/02/2012	IP 7111121	Component Design Bases Inspection	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/15/2012	10/19/2012	IP 2515/185	Follow-up on the Industry's Ground Water Protection Initiative	
10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/26/2012	11/30/2012	IP 71124.05	Radiation Monitoring Instrumentation	

**Kewaunee**  
**Inspection / Activity Plan**  
**01/01/2012 - 06/30/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
11/26/2012	11/30/2012	IP 7111111B	Licensed Operator Requalification Program	
		<b>BI MODS - TRIENNIAL PERM MODS/50.59</b>		<b>3</b>
03/18/2013	04/05/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
02/04/2013	02/08/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
		<b>OL PREP - KEWAUNEE INIT PREP 04/2013</b>		<b>3</b>
04/22/2013	04/26/2013	W90288	OL - INITIAL EXAM - 2013 APR-MAY - KEWAUNEE	
		<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>2</b>
06/01/2013	08/31/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>OL EXAM - KEWAUNEE INIT EXAM - 05/2013</b>		<b>3</b>
05/13/2013	05/24/2013	W90288	OL - INITIAL EXAM - 2013 APR-MAY - KEWAUNEE	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
05/20/2013	05/24/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	