



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

September 1, 2011

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 LETTER FOR KEWAUNEE POWER STATION;  
05000305/2011006**

Dear Mr. Heacock:

On August 10, 2011, the NRC staff completed its mid-cycle performance review of Kewaunee Power Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010, through June 30, 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 the performance at 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 (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-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.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here:

<http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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 System (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).

Please contact Mike Kunowski 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

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Letter to D. Heacock from M. Kunowski dated September 1, 2011

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05000305/2011006

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**Kewaunee**  
**Inspection / Activity Plan**  
**09/01/2011 - 12/31/2012**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI FIRE - FIRE PROTECTION INSPECTION &amp; BAG TRIP</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 EPX - 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	Performance Indicator Verification	
		<b>TI-177 - TI-2515/177 - GAS VOIDING IN ECCS PIPING</b>		<b>2</b>
11/14/2011	12/02/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		<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	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
02/06/2012	02/10/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
02/06/2012	02/10/2012	IP 71151	Performance Indicator Verification	
		<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 71124.02	Occupational ALARA Planning and Controls	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
04/30/2012	05/04/2012	IP 71124.05	Radiation Monitoring Instrumentation	
		<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>
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	

**Kewaunee**  
**Inspection / Activity Plan**  
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Start	End			
		<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>1</b>
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>4</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 OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
11/26/2012	11/30/2012	IP 7111111B	Licensed Operator Requalification Program	