



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 3, 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: ANNUAL ASSESSMENT LETTER - KEWAUNEE POWER STATION
(05000305/2010001)**

Dear Mr. Heacock:

On February 10, 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 January 1 through December 31, 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.

Overall, Kewaunee Power Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter 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.

While plant performance for the most recent quarter is within the Licensee Response column of the Action Matrix, there was a safety-significant inspection finding affecting the first two quarters of the assessment cycle. This was a White inspection finding in 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, to review the corrective actions for the finding. The inspection revealed no additional findings of safety significance and closed the White Emergency Preparedness inspection finding. 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 June 30, 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 9 months of the inspection plan are tentative and may be revised at the mid-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 Agencywide Documents Access and Management 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 Michael Kunowski, the Branch Chief for Kewaunee, at (630) 829-9618, with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Steven West, Director
Division of Reactor Projects

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

Enclosure: Kewaunee Inspection/Activity Plan

cc w/encl: Distribution via ListServe

D. Heacock

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Letter to D. Heacock from S. West dated March 3, 2010

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(05000305/2010001)

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Kewaunee
Inspection / Activity Plan
03/01/2010 - 06/30/2011

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
04/26/2010	04/30/2010	IP 71124.02	Occupational ALARA Planning and Controls	
04/26/2010	04/30/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
08/16/2010	08/20/2010	IP 71124.05	Radiation Monitoring Instrumentation	
		IP71152 - BIENNIAL PI&R INSPECTION		6
08/16/2010	09/03/2010	IP 71152B	Identification and Resolution of Problems	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
10/18/2010	10/22/2010	IP 71124.07	Public Radiation Safety	
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	
		BI EP - EP ROUTINE INSPECTION / PI VERIFICATION		2
11/01/2010	11/05/2010	IP 7111402	Radiological Environmental Monitoring Program	
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 - BIENNIAL REQUAL PROGRAM INSPECTION		2
11/15/2010	11/19/2010	IP 7111111B	Licensed Operator Requalification Program	
		OL PREP - KEWAUNEE INIT PREP - 01/2011		3
01/17/2011	01/21/2011	W90231	OL - INITIAL EXAM - FEB 2011 - KEWA	
		OL EXAM - KEWAUNEE INIT EXAM 02/2011		3
02/07/2011	02/18/2011	W90231	OL - INITIAL EXAM - FEB 2011 - KEWA	
		BI ENG - ENGINEERING INSERVICE INSPECTION		1
03/12/2011	04/10/2011	IP 7111108P	Inservice Inspection Activities - PWR	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
03/28/2011	04/01/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
03/28/2011	04/01/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
03/28/2011	04/01/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	

Kewaunee
Inspection / Activity Plan
03/01/2010 - 06/30/2011

Planned Dates		Inspection Activity	Title	No. of Staff
Start	End			on Site
		BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1
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	