



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

March 4, 2013

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 KEWUANEER POWER STATION  
(REPORT 05000305/2012001)**

Dear Mr. Heacock:

On February 13, 2013, the Nuclear Regulatory Commission (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, 2012 through December 31, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

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 (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

Although plant performance was within the Licensee Response Column for Kewaunee Power Station, the NRC has not yet finalized the significance of Apparent Violation 05000305/2012503-01, "Degraded Emergency Action Level Scheme." The final safety significance determination may affect the NRC's assessment of plant performance and the enclosed inspection plan.

The enclosed inspection plan lists the inspections scheduled through December 31, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve 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. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

D. Heacock

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We also plan on conducting Inspection Procedure 71003 "Post-Approval Site inspection for License Renewal" at your facility.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure, 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 Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 630-829-9628 with any questions you may have regarding this letter.

Sincerely,

***/RA by Julio Lara for/***

Kenneth Riemer, Chief  
Branch 2  
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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|--------|----------------------|---|--|--|--|--|--|
| OFFICE | RIII                 | E |  |  |  |  |  |
| NAME   | JLara for KRiemer:rj |   |  |  |  |  |  |
| DATE   | 2/26/13              |   |  |  |  |  |  |

**OFFICIAL RECORD COPY**

**Kewaunee**  
**Inspection / Activity Plan**  
**03/01/2013 - 12/31/2014**

| Unit Number | Planned Dates |            | Inspection Activity                                      | Title  | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
|             | Start         | End        |  |  |                      |
|             |               |            | <b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>  |  | <b>1</b>             |
| 1           | 05/20/2013    | 05/24/2013 | IP 71124.08  | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation    |                      |
|             |               |            | <b>TI 182 - TI 182 BURIED PIPING PHASE 2</b>             |  | <b>2</b>             |
| 1           | 06/17/2013    | 06/21/2013 | IP 2515/182  | Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping |                      |
|             |               |            | <b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>  |  | <b>1</b>             |
| 1           | 07/08/2013    | 07/12/2013 | IP 71124.07  | Radiological Environmental Monitoring Program  |                      |
| 1           | 07/08/2013    | 07/12/2013 | IP 71151-BI01  | Reactor Coolant System Activity  |                      |
| 1           | 07/08/2013    | 07/12/2013 | IP 71151-OR01  | Occupational Exposure Control Effectiveness  |                      |
| 1           | 07/08/2013    | 07/12/2013 | IP 71151-PR01  | RETS/ODCM Radiological Effluent  |                      |
|             |               |            | <b>ISFSI - ISFSI INSPECTION</b>                          |  | <b>2</b>             |
| 1           | 07/01/2013    | 07/31/2013 | IP 60855.1   | Operation of an Independent Spent Fuel Storage Installation at Operating Plants                      |                      |
|             |               |            | <b>RENEWAL - LICENSE RENEWAL INSPECTION POST S/D</b>     |  | <b>1</b>             |
| 1           | 09/09/2013    | 09/27/2013 | IP 71003   | Post-Approval Site Inspection for License Renewal  |                      |
|             |               |            | <b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>  |  | <b>1</b>             |
| 1           | 10/28/2013    | 11/01/2013 | IP 71124.01  | Radiological Hazard Assessment and Exposure Controls   |                      |
|             |               |            | <b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b> |  | <b>2</b>             |
| 1           | 10/28/2013    | 11/01/2013 | IP 7111401   | Exercise Evaluation  |                      |
| 1           | 10/28/2013    | 11/01/2013 | IP 71151   | Performance Indicator Verification   |                      |

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.