

August 30, 2004

Mr. Thomas Coutu
Site Vice President
Kewaunee Nuclear Power Plant
Nuclear Management Company, LLC
N490 Hwy 42
Kewaunee, WI 54216-9511

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
KEWAUNEE NUCLEAR POWER PLANT

Dear Mr. Coutu:

On August 11, 2004, the NRC staff completed its mid-cycle plant performance assessment of the Kewaunee Nuclear Power Plant. The mid-cycle review for Kewaunee Nuclear Power Plant involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2003 through June 30, 2004. 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 so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections which may conflict with your plant activities.

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 only baseline inspections at your facility through March 31, 2006.

In our Annual Assessment Letter dated March 4, 2004, we advised you of deficiencies within the engineering program. These issues were particularly evident regarding the findings involving a component cooling water system cross-tie modification, an evaluation completed for a component cooling water system piping pressure boundary change, and during the reviews associated with the identification of blockage on the safety injection pump lubricating oil coolers. You have taken action to address these deficiencies. We have been and will continue to monitor your efforts in this regard to assess their effectiveness.

The enclosed inspection plan details the inspections scheduled through March 31, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The last 12 months of the inspection plan is tentative and may be revised at the End-of-Cycle Review meeting.

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 Web site at <http://www.nrc.gov/NRC/ADAMS/index.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 me at 630-829-9605 with any questions you may have regarding this letter or the inspection plan.

Sincerely.

/RA/

Mohammed A. Shuaibi, Acting Chief
Branch 5
Division of Reactor Projects

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

Enclosure: Kewaunee Nuclear Power Plant Inspection/Activity Plan

cc w/encl: J. Cowan, Executive Vice President,
Chief Nuclear Officer
Plant Manager
Manager, Regulatory Affairs
J. Rogoff, Vice President, Counsel & Secretary
D. Molzahn, Nuclear Asset Manager,
Wisconsin Public Service Corporation
L. Weyers, Chairman, President and CEO,
Wisconsin Public Service Corporation
D. Zellner, Chairman, Town of Carlton
J. Kitsembel, Public Service Commission of Wisconsin

T. Coutu

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cc w/encl: J. Cowan, Executive Vice President,
Chief Nuclear Officer
Plant Manager
Manager, Regulatory Affairs
J. Rogoff, Vice President, Counsel & Secretary
D. Molzahn, Nuclear Asset Manager,
Wisconsin Public Service Corporation
L. Weyers, Chairman, President and CEO,
Wisconsin Public Service Corporation
D. Zellner, Chairman, Town of Carlton
J. Kitsembel, Public Service Commission of Wisconsin

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Kewaunee
Inspection / Activity Plan
09/01/2004 - 03/31/2006

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	FABHD	- REPLACEMENT HEAD FABRICATION REVIEW	1			
1	IP 71007	Reactor Vessel Head Replacement Inspection		08/30/2004	12/10/2004	Other Routine
	ISI	- INSERVICE INSPECTION & LOWER HD TI-152	2			
1	IP 2515/152	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02)		10/25/2004	11/12/2004	Safety Issues
1	IP 7111108P	Inservice Inspection Activities - PWR		10/25/2004	11/12/2004	Baseline Inspections
	FY 2004	- KEWAUNEE RETAKE EXAM 08/2004	2			
1	W90137	RETAKE OF INITIAL OL EXAMS - KEWAUNEE 050-305		11/15/2004	11/19/2004	Not Applicable
	71121.01	- RADIOLOGICAL ACCESS CONTROL	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		12/13/2004	12/17/2004	Baseline Inspections
1	IP 71151	Performance Indicator Verification		12/13/2004	12/17/2004	Baseline Inspections
	DESIGN	- TI 2515/158: REVIEW OF LOW MARGIN/RISK	7			
1	IP 2515/158	Functional Review of Low Margin/Risk Significant Components and Human Actions		01/24/2005	02/18/2005	Safety Issues
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		01/24/2005	02/18/2005	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		01/24/2005	02/18/2005	Baseline Inspections
	71121.03	- RADIOLOGICAL INSTRUMENTATION	1			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/14/2005	03/18/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		03/14/2005	03/18/2005	Baseline Inspections
	PI&R	- PROBLEM IDENTIFICATION & RESOLUTION INSP	4			
1	IP 71152B	Identification and Resolution of Problems		05/02/2005	05/20/2005	Baseline Inspections
	71122.02	- RADWASTE & TRANSPORTATION	1			
1	IP 7112202	Radioactive Material Processing and Transportation		06/13/2005	06/17/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		06/13/2005	06/17/2005	Baseline Inspections
	71121.01	- RADIOLOGICAL ACCESS CONTROL	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		09/19/2005	09/23/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		09/19/2005	09/23/2005	Baseline Inspections
	FY 2006	- KEWAUNEE INIT PREP 10/2005	3			
1	W90125	OL - INITIAL EXAM - KEWAUNEE - OCT/NOV 2005		10/10/2005	10/14/2005	Not Applicable
	MOD/5059	- MODIFICATIONS AND 5059	1			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		10/17/2005	10/21/2005	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		10/17/2005	10/21/2005	Baseline Inspections
	71114	- EP EXERCISE & EP PI INSP	2			
1	IP 7111401	Exercise Evaluation		10/31/2005	11/04/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/31/2005	11/04/2005	Baseline Inspections

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

Kewaunee
Inspection / Activity Plan
09/01/2004 - 03/31/2006

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				Start	End	
FY 2006 - KEWAUNEE INIT EXAM 11/2005						
1	W90125	OL - INITIAL EXAM - KEWAUNEE - OCT/NOV 2005	3	11/07/2005	11/18/2005	Not Applicable

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