

August 27, 2003

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

SUBJECT: MID-CYCLE ASSESSMENT LETTER - KEWAUNEE NUCLEAR POWER  
PLANT (REPORT 50-305/04-01)

Dear Mr. Coutu:

On July 30, 2003, the NRC staff completed its mid-cycle plant performance assessment of the Kewaunee Nuclear Power Plant. The mid-cycle review for Kewaunee involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the first half of the current assessment cycle, January 1 - December 31, 2003. 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 that may conflict with your plant activities.

Plant performance for the most recent quarter was within the regulatory response column of the Action Matrix, based on a White inspection finding in the mitigating systems cornerstone which originated in the second quarter of 2002. The White finding involved a failure to install fixed fire suppression systems in certain fire zones within the plant. Although NRC staff initiated a supplemental Inspection Procedure (IP) 95001 inspection in March 2003, the inspection could not be completed because your staff's root cause investigation into the issue was incomplete. Therefore, this White finding is remaining open beyond four quarters and will remain open pending completion of the IP 95001 supplemental inspection. In addition to the supplemental inspection, we plan to conduct routine baseline inspections at your facility.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. 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 inspections in the last 6 months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.790 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/reading-rm/adams.html> (the Public Electronic Reading Room).

T. Coutu

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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 Mr. Patrick Loudon at (630) 829-9627 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA by Steve A. Reynolds acting for/***

Geoffrey Grant, Director  
Division of Reactor Projects

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

Enclosure: Kewaunee Inspection/Activity Plan

cc w/encl: K. Hoops, Plant Manager, Kewaunee Plant  
D. Graham, P.E., Director, Bureau of Field Operations  
Chairman, Wisconsin Public Service Commission  
State Liaison Officer  
The Honorable Darin A. Jeanquart  
D. Day, President, Two Rivers City Council  
D. C. Markwardt, Chairperson, Manitowoc County  
G. Novickis, Chairman, Kewaunee County  
N. Crowley, Director, Manitowoc County  
Emergency Government  
L. Hucek, Director, Kewaunee County  
Emergency Government  
G. Buckley, Two Rivers City Manager  
C. Meyer, President, Village of Mishicot  
INPO

T. Coutu

-2-

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G. Novickis, Chairman, Kewaunee County  
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OFFICE	RIII		RIII		RIII				
NAME	JCameron/co		PLouden		GGrant				
DATE	08/15/03		08/18/03		08/26/03				

**OFFICIAL RECORD COPY**

T. Coutu

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**Kewaunee**  
**Inspection / Activity Plan**  
**09/01/2003 - 09/30/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>FPI SUP - FPI SUPPLEMENTAL - WHITE FINDING</b>		<b>1</b>			
1	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area		12/08/2003	12/19/2003	Supplemental Progra
	<b>INSP - BIENNIAL EP EXERCISE</b>		<b>3</b>			
1	IP 7111401	Exercise Evaluation		09/22/2003	09/26/2003	Baseline Inspections
1	IP 71151	Performance Indicator Verification		09/22/2003	09/26/2003	Baseline Inspections
	<b>TI 148 - TI2515/148 SECURITY ICMS</b>		<b>4</b>			
1	IP 2515/148	Inspection of Nuclear Reactor Safeguards - Interim Compensatory Measures		11/17/2003	11/21/2003	Safety Issues
	<b>BR5 - PI&amp;R</b>		<b>3</b>			
1	IP 71152B	Identification and Resolution of Problems		12/01/2003	12/12/2003	Baseline Inspections
	<b>7112102 - NON OUTAGE ALARA</b>		<b>2</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		12/08/2003	12/12/2003	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		12/08/2003	12/12/2003	Baseline Inspections
1	IP 71151	Performance Indicator Verification		12/08/2003	12/12/2003	Baseline Inspections
	<b>FY 2004 - KEWAUNEE INIT PREP 01/2004</b>		<b>4</b>			
1	W90078	OL - INITIAL EXAM - KEWAUNEE - AUG/SEP 2003		01/12/2004	01/16/2004	Not Applicable
	<b>FY 2004 - KEWAUNEE INIT EXAM 02/2004</b>		<b>4</b>			
1	W90078	OL - INITIAL EXAM - KEWAUNEE - AUG/SEP 2003		02/02/2004	02/10/2004	Not Applicable
	<b>7112101 - RETS</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/09/2004	02/13/2004	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/09/2004	02/13/2004	Baseline Inspections
	<b>FPI - TRIENNIAL FIRE PROTECTION</b>		<b>3</b>			
1	IP 7111105T	Fire Protection		03/22/2004	04/09/2004	Baseline Inspections
	<b>7112102 - NON-OUTAGE ACCESS CONTROL &amp; ALRAR</b>		<b>2</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		05/17/2004	05/21/2004	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		05/17/2004	05/21/2004	Baseline Inspections
1	IP 71151	Performance Indicator Verification		05/17/2004	05/21/2004	Baseline Inspections
	<b>71114 - BASELINE NON-EXERCISE EP INSP</b>		<b>1</b>			
1	IP 7111402	Alert and Notification System Testing		06/28/2004	07/02/2004	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		06/28/2004	07/02/2004	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		06/28/2004	07/02/2004	Baseline Inspections
1	IP 71151	Performance Indicator Verification		06/28/2004	07/02/2004	Baseline Inspections
	<b>71111.11 - LIC OPERATOR REQUAL PROGRAM EVALUATION</b>		<b>2</b>			
1	IP 7111111B	Licensed Operator Requalification		07/12/2004	07/16/2004	Baseline Inspections
	<b>SSDI - COMBINED SAFETY SYSTEM DESIGN/MODS/50.59</b>		<b>5</b>			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		08/16/2004	09/03/2004	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**  
**09/01/2003 - 09/30/2004**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>SSDI</b>	<b>- COMBINED SAFETY SYSTEM DESIGN/MODS/50.59</b>	<b>5</b>			
1	IP 711117B	Permanent Plant Modifications		08/16/2004	09/03/2004	Baseline Inspections
1	IP 7111121	Safety System Design and Performance Capability		08/16/2004	09/03/2004	Baseline Inspections
	<b>7112203</b>	<b>- REMP</b>	<b>2</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/09/2004	08/13/2004	Baseline Inspections
1	IP 7112203	Radiological Environmental Monitoring Program		08/09/2004	08/13/2004	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/09/2004	08/13/2004	Baseline Inspections
	<b>ISI</b>	<b>- INSERVICE INSPECTION/HEAD REPLACEMENT</b>	<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/20/2004	11/26/2004	Baseline Inspections