

August 7, 1996

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Docket File GH11(2)  
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Mr. M. L. Marchi  
Manager - Nuclear Business Group  
Wisconsin Public Service Corporation  
Post Office Box 19002  
Green Bay, WI 54307-9002

SUBJECT: AMENDMENT NO. 125 TO FACILITY OPERATING LICENSE NO. DPR-43 -  
KEWAUNEE NUCLEAR POWER PLANT (TAC NO. M95670)

Dear Mr. Marchi:

The Commission has issued the enclosed Amendment No. 125 to Facility Operating License No. DPR-43 for the Kewaunee Nuclear Power Plant (KNPP). This amendment revises the Technical Specifications (TS) in response to your application dated June 4, 1996.

The amendment revises the TS by reducing the surveillance test frequencies for the radiation monitoring system (Table TS 4.1-1) and the control rods (Table TS 4.1-3) in accordance with the guidance of Generic Letter 93-05, "Line-Item Technical Specifications Improvements to Reduce Surveillance Requirements for Testing During Power Operation," dated September 27, 1993.

A copy of the Safety Evaluation is also enclosed. Notice of issuance will be included in the Commission's next regular biweekly Federal Register notice.

Sincerely,

Original signed by:

Richard J. Laufer, Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-305

Enclosures: 1. Amendment No. 125 to  
License No. DPR-43  
2. Safety Evaluation

cc w/encs: See next page

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NAME	DFoster-Curseen		RLaufer	W	CGrimes		m20bua	m
DATE	06/19/96		06/20/96		06/21/96	CG	08/1/96	m

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OFFICE	PD33:LA	<input checked="" type="checkbox"/>	PD33:PM	<input checked="" type="checkbox"/>	BC:OTSB	<input type="checkbox"/>	OGC NLO	<input type="checkbox"/>
NAME	DFoster-Curseen		RLaufer	<input checked="" type="checkbox"/>	CGrimes	<input checked="" type="checkbox"/>	m203122	<input checked="" type="checkbox"/>
DATE	06/19/96	<input checked="" type="checkbox"/>	06/20/96	<input checked="" type="checkbox"/>	06/21/96	<input checked="" type="checkbox"/>	06/11/96	<input checked="" type="checkbox"/>

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8/21/96

Mr. M. L. Marchi  
Wisconsin Public Service Corporation

Kewaunee Nuclear Power Plant

cc:

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Town of Carlton  
Route 1  
Kewaunee, Wisconsin 54216

Mr. Harold Reckelberg, Chairman  
Kewaunee County Board  
Kewaunee County Courthouse  
Kewaunee, Wisconsin 54216

Chairman  
Wisconsin Public Service Commission  
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Madison, Wisconsin 53705-2729

Attorney General  
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Madison, Wisconsin 53702

U. S. Nuclear Regulatory Commission  
Resident Inspectors Office  
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Kewaunee, Wisconsin 54216

Regional Administrator - Region III  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

DOCKET NO. 50-305

KEWAUNEE NUCLEAR POWER PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 125  
License No. DPR-43

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company (the licensees) dated June 4, 1996, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-43 is hereby amended to read as follows:

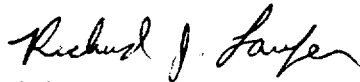
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(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 125, are hereby incorporated in the license. The licensees shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance, and is to be implemented within 30 days of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Richard J. Laufer, Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical  
Specifications

Date of issuance: August 7, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 125

FACILITY OPERATING LICENSE NO. DPR-43

DOCKET NO. 50-305

Revise Appendix A Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change.

REMOVE

TABLE TS 4.1-1  
(page 4 of 7)

TABLE TS 4.1-3

INSERT

TABLE TS 4.1-1  
(page 4 of 7)

TABLE TS 4.1-3

TABLE TS 4.1-1

## MINIMUM FREQUENCIES FOR CHECKS, CALIBRATIONS AND TEST OF INSTRUMENT CHANNELS

CHANNEL DESCRIPTION	CHECK	CALIBRATE	TEST	REMARKS
18. a. Containment Pressure (SIS signal)	Each shift	Each refueling cycle(b)	Monthly(a)	(a) Isolation Valve Signal (b) Only if test indicates calibration required
b. Containment Pressure (Steamline Isolation)	Each shift(a)	Each refueling cycle(a,b)	Monthly(a)	(a) Narrow range containment pressure (-3.0, +3.0 psig excluded) (b) Only if test indicates calibration required
c. Containment Pressure (Containment Spray Act)	Each shift	Each refueling cycle(a)	Monthly	(a) Only if test indicates calibration required
d. Annulus Pressure (Vacuum Breaker)	Not applicable	Each refueling cycle(a)	Each refueling cycle	(a) Only if test indicates calibration required
19. Radiation Monitoring System	Daily (a,b)	Each refueling cycle (a)	Quarterly (a)	(a) Includes only channels R11 thru R15, R19, R21, and R23 (b) Channel check required in all plant modes
20. Deleted				
21. Containment Sump Level	Not applicable	Not applicable	Each refueling cycle	
22. Accumulator Level and Pressure	Each shift	Each refueling cycle	Not applicable	
23. Steam Generator Pressure	Each shift	Each refueling cycle	Monthly	

TABLE IS 4.1-3  
MINIMUM FREQUENCIES FOR EQUIPMENT TESTS

EQUIPMENT TESTS	TEST	FREQUENCY
1. Control Rods	Rod drop times of all full length rods Partial movement of all rods not fully inserted in the core	Each REFUELING outage Quarterly when at or above HOT STANDBY
1a. Reactor Trip Breakers	Independent test <sup>(2)</sup> shunt and undervoltage trip attachments	Monthly
1b. Reactor Coolant Pump Breakers- Open-Reactor Trip	OPERABILITY	Each REFUELING outage
1c. Manual Reactor Trip	Open trip reactor <sup>(3)</sup> trip and bypass breaker	Each REFUELING outage
2. Deleted		
3. Deleted		
4. Containment Isolation Trip	OPERABILITY	Each REFUELING outage
5. Refueling System Interlocks	OPERABILITY	Prior to fuel movement each REFUELING outage
6. Deleted		
7. Deleted		
8. RCS Leak Detection	OPERABILITY	Weekly <sup>(4)</sup>
9. Diesel Fuel Supply	Fuel Inventory <sup>(5)</sup>	Weekly
10. Deleted		
11. Fuel Assemblies	Visual Inspection	Each REFUELING outage
12. Guard Pipes	Visual Inspection	Each REFUELING outage
13. Pressurizer PORVs	OPERABILITY	Each REFUELING cycle
14. Pressurizer PORV Block Valves	OPERABILITY	Quarterly <sup>(6)</sup>
15. Pressurizer Heaters	OPERABILITY <sup>(7)</sup>	Each REFUELING cycle
16. Containment Purge and Vent Isolation Valves	OPERABILITY <sup>(8)</sup>	Each REFUELING cycle

<sup>(1)</sup>Following maintenance on equipment that could affect the operation of the equipment, tests should be performed to verify OPERABILITY.

<sup>(2)</sup>Verify OPERABILITY of the bypass breaker undervoltage trip attachment prior to placing breaker into service.

<sup>(3)</sup>Using the Control Room push-buttons, independently test the reactor trip breakers shunt trip and undervoltage trip attachments. The test shall also verify the undervoltage trip attachment on the reactor trip bypass breakers.

<sup>(4)</sup>When reactor is at power or in HOT SHUTDOWN condition.

<sup>(5)</sup>Inventory of fuel required in all plant modes.

<sup>(6)</sup>Not required when valve is administratively closed.

<sup>(7)</sup>Test will verify OPERABILITY of heaters and availability of an emergency power supply.

<sup>(8)</sup>This test shall demonstrate that the valve(s) close in  $\leq 5$  seconds.





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATING TO AMENDMENT NO. 125 TO FACILITY OPERATING LICENSE NO. DPR-43

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

KEWAUNEE NUCLEAR POWER PLANT

DOCKET NO. 50-305

1.0 INTRODUCTION

By letter dated June 4, 1996, Wisconsin Public Service Corporation (WPSC), the licensee, requested a revision to the Kewaunee Nuclear Power Plant (KNPP) Technical Specifications (TS). The proposed amendment would revise the TS by reducing the surveillance test frequencies for the radiation monitoring system (Table TS 4.1-1) and the control rods (Table TS 4.1-3) in accordance with the guidance of Generic Letter (GL) 93-05, "Line-Item Technical Specifications Improvements to Reduce Surveillance Requirements for Testing During Power Operation," dated September 27, 1993.

2.0 BACKGROUND

The NRC conducted a comprehensive examination of surveillance requirements in the TS that require testing during power operation. The evaluation is documented in NUREG-1366, "Improvements to Technical Specification Surveillance Requirements," dated December 1992. The staff found that while the majority of testing at power is important, safety can be improved, equipment degradation decreased, and an unnecessary burden on personnel resources eliminated by relaxing a small fraction of the TS testing intervals. Based on the results of the evaluations, the NRC issued GL 93-05 to provide guidance to licensees for preparing license amendments to incorporate the TS changes recommended by NUREG-1366.

3.0 EVALUATION

The licensee has proposed the TS changes described below to incorporate the recommendations of GL 93-05.

TABLE TS 4.1-1, Item 19, "Radiation Monitoring System," is modified to change the testing frequency of channels R-11 through R-15, R-19, R-21 and R-23 from monthly to quarterly. The notation for comment (a) is also added to the Check, Calibrate and Test columns for clarification.

The reduction in testing frequency will reduce the personnel burden required to perform, monitor and review these tests and will not affect the reliability of the radiation monitors. This change is consistent with the recommendations of GL 93-05 and with Kewaunee's operating experience. A licensee review of the surveillance procedure test results since 1994, when the detectors, electronics, and associated channel relays for these radiation monitors were replaced, did not reveal any significant problems associated with these tests. Therefore, the staff finds this change acceptable.

TABLE TS 4.1-3, Item 1, "Control Rods," is modified to change the surveillance frequency for partial movement of all control rods not fully inserted in the core from every two weeks to every quarter when at or above hot standby.

The reduction in testing frequency will minimize degradation of the associated equipment and components by reducing unnecessary component exercising and will reduce the personnel burden required to perform these tests. This change is consistent with the recommendations of GL 93-05 and with Kewaunee's operating experience. A licensee review of test results for this surveillance since 1991, indicates an excellent performance history for this test. Therefore, the staff finds this change acceptable.

#### 4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Wisconsin State official was notified of the proposed issuance of the amendment. The State official had no comments.

#### 5.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 or changes a surveillance requirement. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluent that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding (61 FR 34901). Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

#### 6.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: R. Laufer

Date: August 7, 1996