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Docket No. 50-305

Mr. E. R. Mathews
 Vice President
 Wisconsin Public Service Corporation
 Post Office Box 1200
 Green Bay, Wisconsin 54305

Dear Mr. Mathews:

The Commission has issued the enclosed Amendment No. 30 to Facility Operating License No. DPR-43 for the Kewaunee Nuclear Power Plant. This amendment consists of changes to the Technical Specifications in response to your request dated April 16, 1979.

The amendment revises the Technical Specifications to permit waiving the turbine stop and governor valve testing at the end of cycle.

Copies of the Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely,

Original Signed By

A. Schwencer, Chief
 Operating Reactors Branch #1
 Division of Operating Reactors

Enclosures:

1. Amendment No. 30 to DPR-43
2. Safety Evaluation
3. Notice

cc w/encl:
 See next page

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DATE	5/12/79	5/2/79	5/3/79	5/4/79	5/17/79



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

May 7, 1979

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Copies of the Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely, .

A handwritten signature in cursive script, appearing to read "A. Schwencer".

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

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1. Amendment No. 30 to DPR-43
2. Safety Evaluation
3. Notice

cc w/encl:
See next page

Mr. Eugene R. Mathews
Wisconsin Public Service Corporation - 2 - May 7, 1979

cc: Steven E. Keane, Esquire
Foley and Lardner
777 East Wisconsin Avenue
Milwaukee, Wisconsin 53202

Kewaunee Public Library
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Kewaunee, Wisconsin 54216

Stanley LaCrosse, Chairman
Town of Carlton
Route 1
Kewaunee, Wisconsin 54216

Mr. Donald L. Quistroff, Chairman
Kewaunee County Board
Kewaunee County Courthouse
Kewaunee, Wisconsin 54216

Chairman,
Public Service Commission of Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

Mr. Patrick Walsh
Assistant Attorney General
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Madison, Wisconsin 53702

Ms. Sandra Bast
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Manitowoc, Wisconsin 54220

Director, Technical Assessment Division
Office of Radiation Programs (AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection Agency
Federal Activities Branch
Region V Office
ATTN: EIS COORDINATOR
230 South Dearborn Street
Chicago, Illinois 60604



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

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. 30
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 & Light Company and Madison Gas & Electric Company (the licensee) dated April 16, 1979, 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 License No. DPR-43 is hereby amended to read as follows:

7906210 385

"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 30, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 7, 1979

ATTACHMENT TO LICENSE AMENDMENT NO. 30

FACILITY OPERATING LICENSE NO. DPR-43

DOCKET NO. 50-305

Remove the following page and replace with identically numbered page.

Table T.S. 4.1-3

TABLE 4.1-3

MINIMUM FREQUENCIES FOR EQUIPMENT TESTS

<u>Equipment Tests***</u>	<u>Test</u>	<u>Frequency</u>	<u>Maximum Time Between Tests (Days)</u>
1. Control Rods	Rod drop times of all full length rods	Each refueling outage	N.A.
	Partial movement of all rods	Every 2 weeks	17
1a. Reactor Trip Breakers	Open trip	Monthly	37
1b. Reactor Coolant Pump Breakers-Open-Reactor Trip	Operability	Each refueling outage	N.A.
2. Pressurizer Safety Valves	Set point	One each refueling outage	N.A.
3. Main Steam Safety Valves	Set point	Two each refueling outage	N.A.
4. Containment Isolation Trip	Operability	Each refueling outage	N.A.
5. Refueling System Interlocks	Operability	Prior to each refueling outage	N.A.
6. Ventilation System	Halide, DOP and Methyl Iodide Pressure Drop Test Visual Inspection	During each refueling outage except as specified in Note**	N.A.
a. Shield Building			
b. Auxiliary Building SV Zone			
c. Spent Fuel Pool			
7. Fire Protection Pump and Power Supply	*Operability	Monthly	37
8. Containment Leak Detect	Operability	Weekly	8
9. Diesel Fuel Supply	*Fuel inventory	Weekly	8
10. Turbine Stop and Governor Valves	Operability	Monthly (1)	37(1)
11. Fuel Assemblies	Visual Inspection	Each refueling outage	N.A.
12. Guard Pipes	Visual Inspection	Each refueling outage	N.A.

Notes

* See Specification 4.1.d

** Tests and frequency shall be in accordance with Specifications 4.4.d and 4.12.

*** Following maintenance on the above equipment that could affect the operation of the equipment tests should be performed to verify operability.

(1) This test may be waived for end of cycle operations when boron concentrations are less than 150 ppm, due to operational limitations.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 30 TO FACILITY 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

Introduction

By letter dated April 16, 1979, Wisconsin Public Service Corporation (the licensee) requested a change to the Kewaunee Technical Specifications. This change would extend the current monthly surveillance period for the turbine governor and steam stop valves (Table T.S. 4.1-3 item 10) up to two months at end of cycle by waiving the closure tests when boron concentration is less than 150 ppm.

Discussion

Operability of the turbine governor and stop valves is checked monthly to assure the capability to control turbine speed in case of an unexpected loss of load. Failure of these valves could result in a failure of the turbine rotor and damage due to resultant missiles.

For end of cycle operations, performance of the closure tests leads to operational problems. Power must be reduced to less than 30%, which makes it difficult to maintain the axial flux difference within Technical Specification limits. The low boron concentration also requires processing of large amounts of reactor coolant to overcome xenon peaking and to return to full power. The licensee has requested a waiver of the test for end of cycle operations only.

7906210 388

Evaluation

Steam admission to the turbine is controlled by two valves in series; (1) the governor valve and (2) the turbine stop valve. Turbine overspeed is controlled by three independent speed sensors. The primary overspeed control is provided by an electro-hydraulic system set to produce a trip at 103% of rated speed. Backup speed control is furnished by a mechanical overspeed mechanism set to trip at 111% of rated speed. The electro-hydraulic control system furnishes a secondary backup which produces a turbine trip at 111% + 10 R.P.M. This redundancy in both valves and controls provides reasonable assurance that turbine speed control will be maintained.

The operating history of these valves includes more than 60 reactor and turbine trips, more than 100 trip signals during pre-operational and startup testing, and more than 40 monthly tests since January 1974. In all instances, the turbine stop and governor valves have operated properly. This history of trouble-free performance provides added assurance of the dependability of these valves and the control systems. The proposed technical specification change will allow the closure tests to be waived only at end-of-cycle when boron concentration is less than 150 gpm. Based on expected boron letdown rates of at least 80 ppm/month, this allows no more than a two month extension. This change is similar to the temporary technical specification granted by Amendment No. 4, January 20, 1975, which extended the surveillance period at end-of-cycle by 59 days.

Based on the above, we consider the waiver of the governor and turbine stop valve closure tests at end-of-cycle when the boron concentration is less than 150 ppm to be acceptable.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact, and pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: May 30, 1979

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-305WISCONSIN PUBLIC SERVICE CORPORATIONWISCONSIN POWER AND LIGHT COMPANYMADISON GAS AND ELECTRIC COMPANYNOTICE OF ISSUANCE AND AMENDMENT TO FACILITY
OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 30 to Facility Operating License No. DPR-43 issued to Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company (the licensee) which revised Technical Specifications for operation of the Kewaunee Nuclear Power Plant located in Kewaunee, Wisconsin. The amendment is effective as of the date of issuance.

The amendment revises the Technical Specifications to permit waiving the turbine stop and governor valve testing at end of cycle.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

7906210 393

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated April 16, 1979, (2) Amendment No. 30 to Facility Operating License No. DPR-43, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., Washington, D.C. 20555, and at the Kewaunee Public Library, 822 Juneau Street, Kewaunee, Wisconsin 54216. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 7th day of May, 1979.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors