

JAN 20 1975

Docket No. 50-305

Wisconsin Public Services Corporation
ATTN: Mr. E. W. James
Senior Vice President
Post Office Box 1200
Green Bay, Wisconsin 54305

Gentlemen:

The Commission has issued the enclosed Amendment No. 4 to Facility License No. DPR-43, for the Kewaunee Nuclear Power Plant. This amendment includes Change No. 6 to the Technical Specifications, and is in response to your request dated December 20, 1974.

This amendment revises the Technical Specifications by temporarily extending the current monthly surveillance period for the turbine governor and steam stop valves (Table T.S. 4.1-3, item 10) by an additional 59 days.

Copies of the related Safety Evaluation and the Federal Register Notice are also enclosed.

Sincerely,

Original signed by
R. A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Directorate of Licensing

Enclosures:

1. Amendment No. 4
2. Safety Evaluation
3. Federal Register Notice

cc: See next page

Wisconsin Public Services
Corporation

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JAN 20 1975

cc w/enclosures:

Steven E. Keane, Esquire
Foley, Sammond & Lardner
735 North Water Street
Milwaukee, Wisconsin 53202

Bruce W. Churchill, Esquire
Shaw, Pittman, Potts, & Trowbridge
910 - 17th Street, NW.
Washington, D.C. 20006

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

Mr. Arden Koehler
Chairman, Town of Carlton
Route 1
Kewaunee, Wisconsin 54216

Kewaunee Public Library
314 Milwaukee Street
Kewaunee, Wisconsin 54216

cc w/enclosures & 12/20/74 ltr:
Mr. William F. Eich, Chairman
Public Service Commission of
Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

Mr. Gary Williams
Federal Activities Branch
Environmental Protection Agency
1 North Wacker Drive
Chicago, Illinois 60606

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1/15/75

OFFICE >	L:OR-1	L:OR-1 <i>[Signature]</i>	OGC	L:OR <i>KRG</i>		1 <i>Conrad Ak...</i>
SURNAME >	<i>F. McDonough</i> LMcDonough:dc	RAPurple	<i>Selfert</i>	KRGoller		
DATE >	1/10/75	1/14/75	1/15/75	1/17/75		

JAN 20 1975

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. 4
License No. DPR-43

1. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for amendment by Wisconsin Public Service Corporation (the licensee) dated December 20, 1974, 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 license, 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. Prior public notice of this amendment is not required since the amendment does not involve a significant hazards consideration.
2. Accordingly, Paragraph 2.C.(2) of Facility License No. DPR-43 is hereby amended to include the following:

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"(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications, as revised by issued changes thereto through Change No. 6."

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

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by
Karl Goller

Karl R. Goller, Assistant Director
for Operating Reactors
Directorate of Licensing

Attachment:
Change No. 6 to the Technical
Specifications

Date of Issuance: JAN 20 1975

OFFICE >						
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DATE >						

ATTACHMENT TO LICENSE AMENDMENT NO. 4
CHANGE NO. 6 TO TECHNICAL SPECIFICATIONS
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

Appendix A is revised as follows:

1. Remove Table T.S. 4.1-3 and insert new Table T.S. 4.1-3.

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TABLE TS 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 Cool. 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	Charcoal Filter	Prior to each refueling outage **	N.A.
a. Control Room	Pressure Drop Test		
b. Shield Building	Visual Inspection		
c. Auxiliary Building			
d. Purge and Vent			
e. 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.

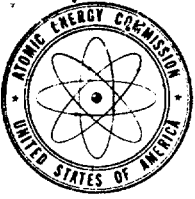
Notes

* See Spec. 4.1.d

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

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

(1) Temporary extension granted from February 1, 1975, to April 1, 1975 (59 days).



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING
SUPPORTING AMENDMENT NO. 4 TO LICENSE NO. DPR-43
CHANGE NO. 6 TO THE TECHNICAL SPECIFICATIONS

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 December 20, 1974, Wisconsin Public Services Corporation (the licensee) requested a temporary change to the Kewaunee Technical Specifications. This temporary change would extend the current monthly surveillance period for the turbine governor and steam stop valves (Table T.S. 4.1-3, item 10) by an additional 59 days.

Discussion

Operability of the turbine governor and shut-off valve is checked monthly primarily 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.

Inservice testing of these valves is normally by means of test circuitry that allows tests to be carried out while the plant is at power. Problems encountered within this circuitry preclude these inservice checks and a plant shutdown will be required to restore the normal test capabilities. These problems do not affect the normal functional capability of the valves. Since a maintenance shutdown is planned for late March 1975, the licensee has requested the surveillance period on these valves be extended from February 1, 1975 (the next required test date) to April 1, 1975, i.e., a 59-day extension of the test period.

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. and finally a completely independent emergency overspeed trip with redundant circuits trips all steam supply valves when 111% of rated speed is exceeded by 10 R.P.M. This redundancy in both valves and controls provide reasonable assurance that the turbine speed control will be maintained.

The operating history of these valves during preliminary checkout, formal testing during the startup program, prestart checks, and inservice checks includes over 100 closures without a failure. This history of trouble-free performance provides additional assurance as to the dependability of these valves and associated control systems.

The effect of turbine missile is evaluated in the Final Safety Analysis Report for Kewaunee. The only Class I structure and equipment that is not completely protected from the postulated turbine missile damage is the spent fuel pool and the new fuel storage pit. Fuel is not stored in either of these facilities at the present time nor is it expected to be prior to April 1, 1975. Thus, in the very unlikely event of turbine missile damage to these fuel storage areas, no radioactive release or damage to Class I structures that may endanger the public would occur.

Based on the above and the desirability of avoiding, when possible, the effects of thermal and pressure cycling of the reactor associated with shutting down and restarting, we conclude the extension of the turbine governor and shut-off valve surveillance period to April 1, 1975, is acceptable.

Conclusion

We have concluded, based on the reasons discussed above, that the authorization of this change does not involve a significant hazards consideration. We also conclude that 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 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.

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Leo McDonough
Operating Reactors Branch #1
Directorate of Licensing

Original signed by

R. A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Directorate of Licensing

Date: JAN 20 1975

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SURNAME ➤						
DATE ➤						

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-305

WISCONSIN PUBLIC SERVICE CORPORATION
WISCONSIN POWER AND LIGHT COMPANY
MADISON GAS AND ELECTRIC COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

Notice is hereby given that the U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 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 County, Wisconsin. The amendment is effective as of its date of issuance.

The amendment revises the Technical Specifications by temporarily extending the current monthly surveillance period for the turbine governor and steam stop valves (Table T.S. 4.1-3, item 10) by an additional 59 days.

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.

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DATE ➤						

For further details with respect to this action, see (1) the application for amendment dated December 20, 1974, (2) Amendment No. 4 to License No. DPR-43, with any attachments, 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. and at the Kewaunee Public Library, 314 Milwaukee Street, Kewaunee Wisconsin.

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: Deputy Director for Reactor Projects, Directorate of Licensing - Regulation.

Dated at Bethesda, Maryland, this JAN 20 1975

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
R. A. Purple

Robert A. Purple, Chief
Operating Reactors Branch #1
Directorate of Licensing

PRELIMINARY DETERMINATION

NOTICING OF PROPOSED LICENSING AMENDMENT

Licensee: Wisconsin Public Service Corporation

Request for: Temporary T.S. change to extend the surveillance period for
inservice check on the turbine governor valve and steam stop
valve from February 1, 1975 to April 1, 1975.

Request Date: December 20, 1974

- Proposed Action: () Pre-notice Recommended
 (X) Post-notice Recommended
 (X) Determination delayed pending completion of Safety Evaluation

Basis for Decision: The requested extension of this surveillance period does
not involve a significant effect on (a) the probability
or consequence of an accident that would affect the
public, and (b) the established safety margins.

CONCURRENCES:

1. LMcDonough *Leo J. McDonough*
2. RAPurple *RAPurple 1/14/75*
3. K. R. Goller
4. _____
5. Office of General Counsel