

October 15, 1985

Docket No. 50-305

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Mr. D. C. Hintz
Manager - Nuclear Power
Wisconsin Public Service Corporation
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Green Bay, Wisconsin 54307-9002

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Dear Mr. Hintz:

The Commission has issued the enclosed Amendment No.66 to Facility Operating License No. DPR-43 for the Kewaunee Nuclear Power Plant. The amendment consists of changes to the Technical Specifications (TS) in response to your application transmitted by letter dated July 11, 1985. This action completes our review of TAC No. 59250.

The amendment develops consistency between the Kewaunee TS and 10 CFR 50 Appendix J in regard to containment air lock surveillance testing.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

/s/MFairtile

Morton B. Fairtile, Project Manager
Operating Reactors Branch #1
Division of Licensing

Enclosures:

- 1. Amendment No. 66 to DPR-43
- 2. Safety Evaluation

cc: w/enclosures
See next page

*See next page for concurrence

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Docket No. 50-305

Mr. D. C. Hintz
Manager - Nuclear Power
Wisconsin Public Service Corporation
Post Office Box 19002
Green Bay, Wisconsin 54307-9002

Dear Mr. Hintz:

The Commission has issued the enclosed Amendment No. to Facility Operating License No. DPR-43 for the Kewaunee Nuclear Power Plant. The amendment consists of changes to the Technical Specifications (TS) in response to your application transmitted by letter dated July 11, 1985.

The amendment develops consistency between the Kewaunee TS and 10 CFR 50 Appendix J in regard to containment air lock surveillance testing.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

Morton B. Fairtile, Project Manager
Operating Reactors Branch #1
Division of Licensing

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Mr. D. C. Hintz
Wisconsin Public Service Corporation

Kewaunee Nuclear Power Plant

cc:
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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 PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 66
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 licensee) dated July 11, 1985, 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:

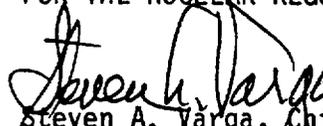
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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 66, 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


Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: October 15, 1985

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 66 TO FACILITY OPERATING LICENSE NO. DPR-43

DOCKET NO. 50-305

Revise Appendix A as follows:

Remove Pages

TS 4.4-4

Insert Pages

TS 4.4-4

TS 4.4-4a

3. Testable isolation valves shall periodically be leak-tested at a pressure not less than 46 psig.
4. The leak tests described in 4.4.b.2 and 4.4.b.3 above shall be performed during, or within one month of, each major refueling outage for which an integrated leak rate test is not performed. In addition:
 - A. Each personnel air lock shall be tested at six month intervals utilizing a Type B test at P_a .
 - B. Personnel air locks opened during periods when containment integrity is not required and is not maintained shall be tested at the end of such periods at not less than (P_a) 46 psig.
 - C. Personnel air locks opened during periods when containment integrity is required or while containment integrity is maintained shall be tested within 3 days of being opened. Personnel air locks opened more frequently than once every 3 days, while containment integrity is required or maintained, shall be tested at least once every 3 days during the period of frequent openings. The 3 day test requirement is satisfied by leak testing the entire air lock with acceptance criterion as 4.4.b.4.D or leak testing the air lock door seals, by pressurizing the volume between the O-rings and sealing surface to at least 10 psig with acceptance criterion of 0.005 L_a .
 - D. The overall personnel air lock leakage rate, as determined by 4.4.b.4.A or 4.4.b.4.B, when combined with the present cumulative type B and C leakage shall be less than 0.6 L_a .
 - E. The equipment hatch and the fuel transfer tube flange shall also be tested after each opening.

5. If the combined leak rate from all tests described in 4.4.b.2 and 4.4.b.3 above, as determined by the sum of the most recent results for each penetration test, exceeds $0.60 L_a$, repairs and retest shall be performed to demonstrate reduction of the combined leak rate to this value.
6. The tests described in this section 4.4.b shall include the penetrations which extend from the containment vessel beyond the boundary of the Special Ventilation Zone of the Auxiliary Building. If the combined leak rate from tests of these penetrations, as determined by the sum of the most recent results for each penetration, exceeds $0.01 L_a$, repairs and retest shall be performed to demonstrate reduction of the combined leak rate to this value.
7. The tests described in this section 4.4.b shall include the penetrations, which extend from the containment vessel to the Special Ventilation Zone of the Auxiliary Building. If the combined leak rate from tests of these penetrations, as determined by the sum of the most recent results for each penetration, exceeds $0.10 L_a$, repairs and retest shall be performed to demonstrate reduction of the combined leak rate



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 66 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

Introduction

On July 11, 1985, the Wisconsin Public Service Corporation (the licensee) submitted a proposed Amendment No. 68 with revisions to facility License No. DPR-43 for the Kewaunee Nuclear Power (the facility). The changes to the Technical Specifications (TS) concerned air lock surveillance testing and were proposed to bring the present TS into agreement with the requirements and acceptance criteria of 10 CFR 50, Appendix J, and also proposed that the air lock door seals be tested at a reduced test pressure and leak rate acceptance criteria during periods of frequent door use when confinement is required.

Evaluation

The licensee has proposed revising the TS pertaining to air lock door leak testing to bring them into conformance with 10 CFR 50, Appendix J. Section III.D.2(b)(iii) of Appendix J requires that air locks opened during periods when containment integrity is required shall be tested within 3 days after being opened, or if the air lock is opened frequently the air lock shall be tested at least once every three days during the period of frequent openings. Section III.D.2(b)(iii) permits testing by pressurizing between door seals and if the testing pressure cannot be at accident pressure (Pa) the test pressure (Pt) can be prescribed by TS.

Section 4.4.b.4 of the Kewaunee TS requires the personnel air locks to be tested at each refueling outage, at six month intervals, and if the air lock is opened during the above intervals, testing shall be done after each opening. In the latter event, testing is permitted by pressurization between the air lock doors or by pressurization between the double door seals at a pressure not less than 46 psig (Pa). The licensee, in their letter of July 11, 1985, has proposed to modify Section 4.4.b.4 to bring it into agreement with Appendix J, and since pressuring between the door seals at Pa (46 psig) has led to premature seal failure and increased maintenance on the air lock door operating mechanism, the licensee also has proposed testing the air lock door seals at a reduced test pressure of 10 psig to correct the above conditions. An acceptance criteria of 0.005 La for the reduced pressure is proposed (La is the maximum allowable leakage rate at Pa in percent/24 hours).

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The staff has determined that a test pressure of 10 psig between the door seals with a maximum allowable leakage rate of 0.005 La meets the requirements of 10 CFR 50 - Appendix J. In addition, this reduced pressure testing will not only serve to meet Appendix J requirements but will also reduce damage to the air lock operating mechanisms and better maintain seal integrity. Therefore, we find the change acceptable.

The Licensee has also added the Appendix J acceptance criteria for Type B and C leak rate tests of less than 0.6 La when testing at Pa.

The staff has reviewed the above changes and finds that they agree with Appendix J and with reduced pressure testing between door seals and are therefore acceptable.

Environmental Consideration

This amendment involves changes to the surveillance requirements in the use of a facility components located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents 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. 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.

Conclusions

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

Principal Contributors: F. Maura
K. Ridgway

Dated: October 15, 1985