

Docket No. 50-305

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March 16, 1977

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Wisconsin Public Service Corporation
ATTN: Mr. E. W. James
Senior Vice President
P. O. Box 1200
Green Bay, Wisconsin 54305

Gentlemen:

The Commission has issued the enclosed Amendment No. 15 to Facility Operating License No. DPR-43 for the Kewaunee Nuclear Power Plant. This amendment consists of changes to the Appendix B Technical Specifications in response to your request dated October 22, 1976.

The amendment revised Appendix B by removing the requirements for certain special studies related to plant non-radiological discharges to Lake Michigan.

Copies of the Environmental Impact Appraisal and Federal Register Notice are also enclosed.

Sincerely,

Original signed by

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

Enclosures:

1. Amendment No. 15 to Operating License DPR-43
2. Environmental Impact Appraisal
3. Federal Register Notice

cc w/enclosures:
See next page

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March 16, 1977

cc w/enclosures:

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Kewaunee, Wisconsin 54216

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

Mr. Lester Huber
Chairman, Town of Carlton
Route 1
Kewaunee, Wisconsin 54216

Mr. Norman M. Clapp, Chairman
Public Service Commission of
Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

OFFICE >						
SURNAME >						
DATE >						



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. 15
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 dated October 22, 1976, 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:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 15, 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: March 16, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 15

FACILITY OPERATING LICENSE NO. DPR-43

DOCKET NO. 50-305

Revise Appendix B as follows:

Remove page ES 4.1-1 and insert revised page ES 4.1-1.

4.0 ENVIRONMENTAL SURVEILLANCE AND SPECIAL STUDIES

4.1 Biological

4.1.1 Aquatic

Objective: To determine the effects of impingement of fish on the traveling screens.

Specification: Impingement studies shall continue through the end of 1978. A summary of the progress and results of these studies shall be reported in accordance with Plant Reporting Requirements. Data collected during the two years of the program shall be evaluated by the licensee and the NRC to determine whether the program should be discontinued.

1. Fish Impingement

The number, size and weight of all individual fish collected in a 24 hour period in the circulating cooling water trash basket shall be identified and quantified by plant personnel a minimum of twice per week during circulating water pump operation. An inspection of the trash basket shall be made at least once per shift. If the number of a particular species of fish captured in the trash basket exceeds 50, the average size and weight and an estimate of the total number shall be determined from a subsample of approximately 10% of the impinged species. No subsamples shall be taken when the number of a particular species of fish is 50 or less.

Bases: The fish impingement monitoring will be continued for the specified time to increase the operational data base used in evaluating the environmental effects of the design of the cooling water intake structure.

4.2.2 De-icing Operation

Objective: To document periods of de-icing the circulating water intake structure.

Specification: Periods of de-icing operation and inlet temperatures of the incoming water shall be recorded on an hourly basis and documented in the Annual Environmental Operating Report.

Bases: De-icing operations will occur when the intake waters approach the freezing point or when off-shore winds carry slush over the intakes. During these periods, approximately 3000 gpm of water will be sprayed over the intake cones. An additional 15,000 gpm and 10,000 gpm, depending on two or one pump operation, will be continuously added to the forebay by gravity feed from the discharge structure.



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

ENVIRONMENTAL IMPACT APPRAISAL
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 15 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 October 22, 1976, Wisconsin Public Service Corporation (the licensee) requested a license amendment to revise the Appendix B non-radiological Technical Specifications for Kewaunee Nuclear Power Plant. The amendment would allow removal of certain specifications regarding environmental monitoring programs which have been completed.

The change was requested by the licensee because the affected programs were required in the Technical Specifications to be carried out for a period of two years and to be evaluated by the licensee and NRC. We have evaluated the results of these programs to determine whether the 2-year study meets the objectives of the Technical Specifications and to determine whether further monitoring will be required.

Discussion

The Kewaunee Environmental Technical Specifications, required that biological surveys be performed for two years to evaluate the contributions of the plant discharges on the biotic stresses in Lake Michigan, and, to determine the effects of entrainment of phytoplankton and zooplankton. A thermal plume mapping program was also required by the Technical Specifications as input to the biological studies. The results of these studies were provided to NRC in annual reports. Our review considers the findings made, in the reports, that Kewaunee has caused no appreciable harm to the aquatic environment.

In addition, on August 10, 1976, a State of Wisconsin adjudicatory hearing was conducted which concluded that no appreciable harm has resulted from Kewaunee.

Evaluation

We have reviewed the results of the aquatic general ecology survey (4.1.1.a), the aquatic entrainment monitoring program (4.1.1.b-2 and 4.1.1.b-3), and the aquatic thermal plume mapping program (4.2.1). We have found that the first two satisfy the objectives of the specifications both in quality and quantity of data. Furthermore, we generally agree with the licensee's conclusions on the results of these two studies. Our review of the third program, the aquatic thermal plume mapping program, indicated to us that the model the licensee developed was not entirely adequate and did not totally meet the objectives of the specifications. We also found the plume measurement program to be inadequate in some respects. However, our review of the extensive results from the biological monitoring program indicates that the plant is causing negligible harm to the aquatic biota of Lake Michigan. An Argonne National Laboratory review of these same biological data has concluded that the data do not show an immediate significant effect on the biota of Lake Michigan. The results of the aquatic thermal plume monitoring studies are designed exclusively as input to the biological studies. Since we find that the biological results are adequate for the purpose of impact prediction, we conclude that further aquatic thermal plume monitoring is not required.

Except for the hydrothermal modeling and monitoring, which we conclude are no longer required, we have found that the original specification objectives have been met by the 2-year study. Therefore, we conclude that Technical Specification pages ES 4.1-1 through and including ES 4.2-3 may be changed to retain only the fish impingement monitoring provisions. As this change involves the deletion of monitoring programs from the Technical Specifications which have either been adequately completed or are no longer considered necessary for the purpose of assessing environmental impact, there is no environmental impact associated with this change. We have reviewed the licensee's assessment of plant impact and agree with its finding that the plant is causing negligible harm to the biota of the Lake.

Conclusion and Basis for Negative Declaration

On the basis of the foregoing analysis, it is concluded that there will be no significant environmental impact attributable to the proposed action. Having made this conclusion, the Commission has further concluded that no environmental impact statement for the proposed action need be prepared and that a negative declaration to this effect is appropriate.

Date: March 16, 1977

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

AND NEGATIVE DECLARATION

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 15 to Facility Operating License No. DPR-43 issued to Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company which revised Technical Specifications for operation of the Kewaunee Nuclear Power Plant located in Kewaunee, Wisconsin. The amendment is effective as of its date of issuance.

The amendment revises Appendix B by removing the requirement for certain special studies related to plant non-radiological discharges to Lake Michigan.

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.

The Commission has prepared an environmental impact appraisal for the revised Technical Specifications and has concluded that an environmental impact statement for this particular action is not warranted because there will be no significant environmental impact attributable to the action.

For further details with respect to this action, see (1) the application for amendment dated October 22, 1976, (2) Amendment No. 15 to Facility Operating License No. DPR-43, and (3) the Commission's related Environmental Impact Appraisal. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555, and at the Kewaunee Public Library, 314 Milwaukee 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 16th day of March 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



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