

Docket No. 50-305

MAR 20 1975

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

Gentlemen:

DISTRIBUTION: MSlater
Docket File JTourtellotte
NRC PDR DMuller
Local PDR GKnighton
EP-1 Reading MJOestmann
RL Reading RRedmond, ANL
OELD PGustafson, ANL
OIE (3) ACRS (16)
NDube RVollmer
BJones (4) CHEbron, (amend. only)
JSaltzman, (ltr only) PCollins
WOMiller SKari, (w/o Tech Specs)
MJinks, (w/2 encl) SVarga
KRGoller LHiggenbotham
RPurple BScharf (15)
MMcDonough
SSheppard (7)

In response to your request of November 20, 1974, we have issued Amendment No. 6 to Facility Operating License No. DPR-43 of the Kewaunee Nuclear Power Plant. This amendment includes Change No. 8 to the Technical Specifications for the plant.

This amendment permits you to reduce the frequency of counting and recording the species of fish collected in the circulating cooling water trash basket from a daily basis to a minimum of twice per week during circulating water pump operation.

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

Sincerely,

S/
Robert A. Purple, Chief
Operating Reactors Branch No. 1
Division of Reactor Licensing

Enclosures:

1. Amendment No. 6 to DPR-43
2. Negative Declaration
3. Environmental Impact Appraisal
3. Federal Register Notice

cc w/Enclosures:

NOTE:

Concurrence on ltr indicates concurrence for entire package.

RL:OR

L. McDonough

3/21/75

See file

OFFICE >	RL:EP-1	RL:EP-1	RL:AD/EP	OELD	RL:AD/OR	RL:OR
SURNAME >	MJOestmann:sh	GKnighton	DMuller	PSaltzman	KRGoller	RAPurple
DATE >	2/18/75	2/27/75	2/27/75	3/21/75	3/18/75	2/14/75

Mr. Carl Giesler
Superintendent of Nuclear Power
Wisconsin Public Service Corporation
P. O. Box 1200
Green Bay, Wisconsin 54305

Steven E. Keane, Esq.
Foley, Sammond and Lardner
735 North Water Street
Milwaukee, Wisconsin 53202

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

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

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

Mr. Gary Williams (w/incoming)
Federal Activities Branch
Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Patrick DeWane, Esq.
Attorney, Town of Two Creeks
Manitowoc, Wisconsin 54241

Mr. Neill Thomasson (w/incoming)
ATTN: Ms. Loretto Long
Office of Radiation Programs
Room 647A East Tower Waterside Mall
Environmental Protection Agency
401 M Street, NW.
Washington, D. C. 20460

Mr. Richard D. Cudahy (w/incoming)
Public Service Commission of
Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

OFFICE ➤						
SURNAME ➤						
DATE ➤						

DO NOT REMOVE

MAR 20 1975

Docket No. 50-305

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

Gentlemen:

DISTRIBUTION:
Docket File
NRC PDR
Local PDR
EP-1 Reading
RL Reading
OELD
OIE (3)
NDube
BJones (4)
JSaltzman, (ltr only)
WOMiller
MJinks, (w/2 encl)
KRGoller
RPurple
MMcDonough
SSheppard
MSlater
JTourtellotte
DMuller
GKnighton
MJOestmann
RRedmond, ANL
PGustafson, ANL
ACRS (16)
RVollmer
CHebron, (amend. only)
PCollins
SKari, (w/o Tech Specs)
SVarga
LHiggenbotham
BScharf (15)

In response to your request of November 20, 1974, we have issued Amendment No. 6 to Facility Operating License No. DPR-43 of the Kewaunee Nuclear Power Plant. This amendment includes Change No. 8 to the Technical Specifications for the plant.

This amendment permits you to reduce the frequency of counting and recording the species of fish collected in the circulating cooling water trash basket from a daily basis to a minimum of twice per week during circulating water pump operation.

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

Sincerely,

Robert A. Purple, Chief
Operating Reactors Branch No. 1
Division of Reactor Licensing

Enclosures:

1. Amendment No. 6 to DPR-43
2. Negative Declaration
3. Environmental Impact Appraisal
3. Federal Register Notice

cc w/Enclosures:

NOTE:

Concurrence on ltr indicates concurrence for entire package.

RL:OR

L. McDonough

3/21/1975

RL:OR

OFFICE	RL:EP-1	RL:EP-1	RL:AD/EP	OELD	RL:AD/OR	RL:OR
BURNNAME	MJOestmann:sh	GKNighton	DRMuller	PSaltzman	KRGoller	RAPurple
DATE	2/18/75	2/27/75	2/27/75	3/21/10/75	3/18/75	2/14/75

Mr. Carl Giesler
Superintendent of Nuclear Power
Wisconsin Public Service Corporation
P. O. Box 1200
Green Bay, Wisconsin 54305

Steven E. Keane, Esq.
Foley, Sammond and Lardner
735 North Water Street
Milwaukee, Wisconsin 53202

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

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

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

Mr. Gary Williams (w/incoming)
Federal Activities Branch
Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Patrick DeWane, Esq.
Attorney, Town of Two Creeks
Manitowoc, Wisconsin 54241

Mr. Neill Thomasson (w/incoming)
ATTN: Ms. Loretto Long
Office of Radiation Programs
Room 647A East Tower Waterside Mall
Environmental Protection Agency
401 M Street, NW.
Washington, D. C. 20460

Mr. Richard D. Cudahy (w/incoming)
Public Service Commission of
Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

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. 6
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 for Kewaunee Nuclear Power Plant, dated November 20, and December 2, 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; and
 - 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.




2. Accordingly, the license is amended by a change 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:

"(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. 8."

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

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:
Change No. 8 to the Technical
Specifications

Date of Issuance: MAR 20 1975

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 6 TO FACILITY OPERATING LICENSE NO. DPR-43

CHANGE NO. 8 TO TECHNICAL SPECIFICATIONS

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

KEWAUNEE NUCLEAR POWER PLANT

DOCKET NO. 50-305

Revise Appendix B as follows:

Remove page ES 4.1-5 and insert pages ES 4.1-5 and ES 4.1-6.

MAR 20 1975

4.0 ENVIRONMENTAL SURVEILLANCE AND SPECIAL STUDIES

4.1.1 Aquatic

b. Entrainment and Impingement

Objective: To determine the effect of entrainment of phytoplankton and zooplankton and the impingement of fish on the traveling screens.

Specification: Entrainment and impingement studies shall continue for two years after the plant becomes operational. A summary of the progress and results of these studies shall be included in the Semi-Annual Operational Report. Data collected during the two years of the program shall be evaluated by the licensee and the AEC to determine whether the program should be modified or discontinued.

1. Fish Impingement

The number, size and weight of all species collected in the circulating cooling water trash basket shall be identified by plant personnel a minimum of twice per week during circulating water pump operation. If the quantity of fish collected reaches a level of approximately 12 inches in the trash basket during a week or less, the frequency of counting shall be increased accordingly. An inspection of the trash basket should be made at least once per shift. Exceptions to the above shall be permitted during the fish run, when the trash basket may be filled more frequently and to a higher level, thereby requiring more frequent identification and recording of the fish capture. If the number of smelt and alewives 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.

2. Phytoplankton Entrainment

- a. Phytoplankton analysis shall be conducted on samples from six locations; at the intake, in the forebay, in the discharge, at two locations in the plume, and at one sampling location in a control area outside of the plume influence.
- b. Duplicate samples shall be taken and the concentration of chlorophyll a and photosynthetic rate as determined by ^{14}C uptake shall be determined at 7, 24, 48 and 72 hours after collection. Species composition and density shall be determined for selected sampling locations.

3. Zooplankton Entrainment

- a. Duplicate samples shall be collected from the same stations as the phytoplankton samples.

4.0 ENVIRONMENTAL SURVEILLANCE AND SPECIAL STUDIES

4.1.1 Aquatic (Continued)

- b. Selected samples shall be analyzed to determine live-dead ratios as soon as possible after collection (usually 10-30 minutes) and again at 4 hours after collection. Organisms shall be identified to genus or species. The length of the organisms shall be determined to assess the effect of size on condenser passage mortality. Species composition and density shall be determined for selected sampling locations.

Bases: Operational data will be compared with data gathered before the plant became operational, thereby providing information in order to help determine the effect of the plant upon the entrained organisms. Fish capture to date has shown that more frequent counting of the fish is not practical and that, except for the fish run, counting at least twice per week will provide sufficient data to determine the fish impingement over extended periods of time.

8

Amendment No. 6
Change No. 8

MAR 20 1975

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

NEGATIVE DECLARATION

REGARDING

KEWAUNEE NUCLEAR POWER PLANT

DOCKET NO. 50-305

The U. S. Nuclear Regulatory Commission (the Commission) has considered the issuance of a change to the Environmental Technical Specifications, Appendix B, of Facility Operating License No. DPR-43. These changes would authorize the Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company to reduce the frequency of counting and recording the species of fish collected in the circulating cooling water trash basket from a daily basis to a minimum of twice per week during circulating water pump operation.

The Commission's Division of Reactor Licensing has prepared an environmental impact appraisal for the proposed change to the Environmental Technical Specifications, Appendix B, of Facility Operating License No. DPR-43, Kewaunee Nuclear Power Plant, described above. On the basis of this appraisal, we have concluded that an environmental impact statement for this proposed action is not warranted because there will be no significant environmental impact attributable to the proposed action. The



environmental impact appraisal is available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C. 20555 and at the Kewaunee Public Library, 314 Milwaukee Street, Kewaunee, Wisconsin 54216.

Dated at Bethesda, Maryland this *20th* day of *March* 1975.

FOR THE NUCLEAR REGULATORY COMMISSION

George W. Knighton
George W. Knighton, Chief
Environmental Projects Branch No. 1
Division of Reactor Licensing

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

ENVIRONMENTAL IMPACT APPRAISAL BY THE DIVISION OF REACTOR LICENSING

SUPPORTING AMENDMENT NO. 6 TO NO. DPR-43

CHANGE NO. 8 TO TECHNICAL SPECIFICATIONS

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

KEWAUNEE NUCLEAR POWER PLANT

DOCKET NO. 50-305

1. DESCRIPTION OF PROPOSED ACTION

By letters dated November 20 and December 2, 1974, Wisconsin Public Service Corporation, Wisconsin Power and Light Company and Madison Gas and Electric Company (licensee) requested a change in the Technical Specifications appended to Facility Operating License No. DPR-43 for the Kewaunee Nuclear Power Plant. The proposed change to reduce the frequency of counting and recording the species of fish collected in the circulating cooling water trash basket from a daily basis to a minimum of twice per week during circulating water pump operation was requested to provide operational flexibility and practicality during periods when essentially no or very few fish are actually collected.

The licensee is presently licensed to operate the Kewaunee Nuclear Power Plant to power levels up to 1650 MWt. The proposed change does not result in an increase in power levels.

II. A SUMMARY DESCRIPTION OF THE PROBABLE IMPACTS OF THE PROPOSED ACTION IN THE ENVIRONMENT

In assessing the impacts of fish impingement at the intake structure of the Kewaunee Nuclear Power Plant, the licensee has been identifying on a daily basis the number, size and weight of all species collected in the circulating water trash basket. The total results of each



fish species collected in the trash basket have been reported for each month in the semi-annual operating report. Alewife (about 297,000) and smelt (about 289,000) have been found to be killed in the greatest numbers during the first six-month period of 1974. However, these fish kills occur during certain fish runs, that is, on an intermittent basis which could last a week or less. Otherwise, the number of other species collected throughout each month (perch, longnose dace, bullhead, chub, sculpin, rainbow trout, sucker, carp, cisco, brown trout, chinook, salmon, brown bullhead) has been found to be insignificant. The total number collected for a 6-month period for 1974 has ranged from 1 to 443 except for smelt and alewives.

The licensee, therefore, has proposed a change to modify the frequency of counting and recording the number, size, and weight of species collected from a daily basis to a minimum of twice per week during circulating water pump operation. When the quantity of fish collected reaches a level of approximately 12 inches in the trash basket, about 5,000 alewives or 4,500 smelt, the frequency of counting the fish collected would be increased accordingly. An inspection of the trash basket shall be made once per working shift. When the inspector finds that the trash basket may be filling more frequently, such as during the fish run, more frequent identification and recording of the fish capture shall be carried out. The licensee will have to be sure that the trash basket shall be emptied at least twice a week to avoid any pungent odor from any dead fish. During the period of the alewife and smelt fish runs, the licensee will continue however to count more frequently than twice a week. The most important aspect of keeping records of the fish capture at the intakes is to determine the total effect of impingement on the fish population due to plant operation. Counting at a frequency of a minimum of twice a week should provide the information desired and yet alleviate the operating staff of the daily handling steps of emptying the large trash basket (4 ft x 4 ft). Inspection of the trash basket each shift should alert the operating staff as to how often the basket needs to be emptied.

We have reviewed the licensee's request and find that the changes will provide the necessary information desired on fish impingement over extended periods of time. Due to the intermittent nature and short duration of any fish runs, the change will give the licensee the operational flexibility and practicality needed for its operating staff's workload. Thus, we have determined that there will be no significant impact associated with the change in frequency of counting and recording the number, size and weight of fish collected during the circulating pump operation.

III. CONCLUSION AND BASIS FOR NEGATIVE DECLARATION

We have concluded, based on the reasons discussed in the sections above, that authorization of Change No. 8 does not involve significant environmental impacts affecting the quality of the environment, in accordance with the Commission's regulations and the Council of Environmental Quality's guidelines. We have also concluded that there are no significant hazards considerations associated with this proposed action and that there is reasonable assurance (1) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (2) 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.

Mary Jane Oestmann

Mary Jane Oestmann, Project Manager
Environmental Projects Branch No. 1
Division of Reactor Licensing

George W. Knighton

George W. Knighton, Chief
Environmental Projects Branch No. 1
Division of Reactor Licensing

MAR 20 1975

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-305

KEWAUNEE NUCLEAR POWER PLANT

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. 6 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 County, Wisconsin. The amendment is effective as of its date of issuance.

The amendment permits the licensee to reduce the frequency of counting and recording the species of fish collected in the circulating cooling water trash basket from a daily basis to a minimum of twice per week during circulating water pump operation.

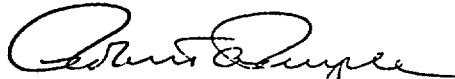
The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter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

For further details with respect to this action, see: (1) the application for the amendment dated November 20, and December 2, 1974, (2) Amendment No. 6 to License No. DPR-43 with Change No. 8 and (3) the Commission's related Negative Declaration with supporting 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, Kewaunee, Wisconsin 54216.

A copy of items (2) and (3) may be obtained upon request addressed to the United States Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Reactor Licensing.

Dated at Bethesda, Maryland, this 20th day of March 1975.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Purple, Chief
Operating Reactors Branch No. 1
Division of Reactor Licensing