

Docket No. 50-305

OCT 21 1975

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Wisconsin Public Service 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. 7 to Facility License No. DPR-43. This amendment includes Change No. 9 to the Technical Specifications and is in response to your requests dated August 4, 1975, and September 19, 1975.

This amendment changes the license to provide for standard provisions for special nuclear, source, and byproduct materials and adds surveillance requirements to the Technical Specifications for Radioactive Materials Sources.

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
 Division of Reactor Licensing

Enclosures:

1. Amendment No. 7
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:
 See next page

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SURNAME	JDNeighbors	dc Tourtellotte	RAPurple		
DATE	10/9/75	10/ /75	10/21/75		

Wisconsin Public Services
Corporation

- 2 -

October 21, 1975

cc w/enclosures:
Steven E. Keane, Esquire
Foley, Sammond & Lardner
735 North Water Street
Milwaukee, Wisconsin 53202

Bruce W. Churchill, Esquire
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Washington, D. C. 20006

Kewaunee Public Library
314 Milwaukee Street
Kewaunee, Wisconsin 54216

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

cc w/enclosures & incoming:
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
One North Wacker Drive, Room 822
Chicago, Illinois 60606

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. 7
License No. DPR-43

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Wisconsin Public Service Corporation (the licensee) dated August 4, 1975, as supplemented September 19, 1975, 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; 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, Facility License No. DPR-43 is hereby amended by revising Paragraphs 2.B.(2), (3), (4) and Paragraph 2.C.(2) to read as follows:

- "2.B.(2) Pursuant to the Act and 10 CFR Part 70, to receive, possess, and use at any time special nuclear material as reactor fuel in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report as supplemented and amended;
- (3) Pursuant to the Act and 10 CFR Parts 30, 40, and 70 to receive, possess, and use at any time any byproduct, source, and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation, and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) Pursuant to the Act and 10 CFR Parts 30, 40, and 70 to receive, possess, and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (5) Pursuant to the Act and 10 CFR Parts 30 and 70, to possess but not to separate, such byproduct and special nuclear materials as may be produced by the operation of the facility."

"2.C.(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. 9 ."

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

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by

R. A. Purple

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

Attachment:
Change No. 9 to the Technical
Specifications

Date of Issuance: OCT 21 1975

ATTACHMENT TO LICENSE AMENDMENT NO. 7
CHANGE NO. 9 TO THE TECHNICAL SPECIFICATIONS
FACILITY OPERATING LICENSE NO. DPR-43
DOCKET NO. 50-305

Revise Appendix A as follows:

1. Remove page TS ii and insert revised page TS ii.
2. Add pages 4.13-1 and 4.13-2.

SectionPage TS

3.8	Refueling	3.8-1
3.9	Radioactive Materials	3.9-1
3.9.a	Liquid Effluents	3.9-1
3.9.b	Airborne Effluents	3.9-4
3.10	Control Rod and Power Distribution Limits	3.10-1
3.10.a	Shutdown Reactivity	3.10-1
3.10.b	Power Distribution Limits	3.10-1
3.10.c	Quadrant Power Tilt Limits	3.10-2
3.10.d	Rod Insertion Limits	3.10-3
3.10.e	Rod Misalignment Limitations	3.10-3
3.10.f	Inoperable Rod Position Indicator Channels	3.10-4
3.10.g	Inoperable Rod Limitations	3.10-4
3.10.h	Rod Drop Time	3.10-5
3.10.i	Rod Position Deviation Monitor	3.10-5
3.10.j	Quadrant Tilt Monitor	3.10-5
3.10.k	Notification	3.10-6
3.11	Core Surveillance Instrumentation	3.11-1
4.0	Surveillance Requirements	4.1-1
4.1	Operational Safety Review	4.1-1
4.2	Reactor Coolant System Inservice Inspection	4.2-1
4.3	Reactor Coolant System Tests Following Opening	4.3-1
4.4	Containment Tests	4.4-1
4.4.a	Integrated Leak Rate Tests	4.4-1
4.4.b	Isolation Valves and Local Leak Rate Tests	4.4-3
4.4.c	Residual Heat Removal System	4.4-5
4.4.d	Shield Building Ventilation System	4.4-5
4.4.e	Auxiliary Building Special Ventilation System	4.4-6
4.4.f	Containment Vacuum Breaker System	4.4-7
4.5	Emergency Core Cooling System and Containment Air Cooling System Tests	4.5-1
4.5.a	System Tests	4.5-1
4.5.a.1	Safety Injection System	4.5-1
4.5.a.2	Containment Vessel Internal Spray System	4.5-2
4.5.a.3	Containment Fan Coil Units	4.5-2
4.5.b	Component Tests	4.5-2
4.5.b.1	Pumps	4.5-2
4.5.b.2	Valves	4.5-3
4.6	Periodic Testing of Emergency Power Systems	4.6-1
4.6.a	Diesel Generators	4.6-1
4.6.b	Station Batteries	4.6-1
4.7	Main Steam Isolation Valves	4.7-1
4.8	Auxiliary Feedwater System	4.8-1
4.9	Reactor Anomalies	4.9-1
4.10	Environmental Monitoring	4.10-1
4.11	Radioactive Materials	4.11-1
4.11.a	Liquid Effluents	4.11-1
4.11.b	Airborne Effluents	4.11-2
4.12	Reserved	
4.13	Radioactive Materials Sources	4.13-1
5.0	Design Features	5.1-1
5.1	Site	5.1-1
5.2	Containment	5.2-1
5.2.a	Containment System	5.2-1
5.2.b	Reactor Containment Vessel	
5.2.c	Shield Building	5.2-2
5.2.d	Shield Building Ventilation System	

4.13 RADIOACTIVE MATERIALS SOURCES

Applicability

Applies to the possession, leak test, and record requirements for radioactive material sources required for operation of the facility.

Objective

To ensure that radioactive material sources which are beneficial to facility operation are available to the facility and these sources are verified to be free from leakage.

Specification

1. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or the State.
2. Sources which contain by-product material that exceeds the quantities listed in 10 CFR 30.71, Schedule B, and all other sources containing greater than 0.1 microcuries shall be leak tested in accordance with this specification.
3. Any source specified by 4.13.2 which is determined to be leaking shall be immediately withdrawn from use, repaired or disposed of in accordance with the Commission's regulations. Leaking is defined as the presence of .005 microcurie of the sources radioactive material on the test sample.
4. Each sealed source, except startup sources or irradiation sample sources inserted in the reactor vessel, sources enclosed within the Eberline Model 1000 Multi-Source Calibrator, and Hydrogen 3 sources, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage at intervals not to exceed six months.
5. Sources specified by 4.13.2 which are in storage and not being used are exempt from the testing specification 4.13.4. Prior to use or transfer of such a source, the leakage test specification 4.13.4 shall be current.
6. Startup sources shall be leak tested prior to initial insertion into the reactor vessel.
7. A complete inventory of radioactive materials sources shall be maintained current at all times.

Bases

Ingestion or inhalation of source material may give rise to total body or organ irradiation. This specification assures that leakage from radioactive material sources does not exceed allowable limits. In the unlikely event that those

quantities of radioactive by-product materials of interest to this specification which are exempt from leakage testing are ingested or inhaled, they represent less than one maximum permissible body burden for total body irradiation. The limits for all other sources (including alpha emitters) are based upon 10 CFR 70.39(c) limits for plutonium.

The Eberline Model 1000 Multi-Source Calibrator is a totally enclosed instrument calibrating assembly for which leak testing of the enclosed sources is not practical. Leak testing of these sources would require disassembly of the calibration assembly shield, controls, etc., resulting in personnel exposure without corresponding benefits.

9

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 7 TO LICENSE NO. DPR-43

CHANGE NO. 9 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 August 4, 1975, as supplemented September 19, 1975, Wisconsin Public Service Corporation (the licensee) proposed changes to the Technical Specifications and amendment to the licensed conditions for the receipt, possession, and use of special nuclear, source, and byproduct material at the Kewaunee Nuclear Power Plant. The licensee proposed the changes in response to our letter dated November 19, 1974.

Discussion

The licensee's proposal would replace specific descriptions of special nuclear, source, and byproduct materials which appear in License No. DPR-43 with a standard description in conformance with a format acceptable to us. We have reviewed the proposed license language and found that it provides flexible yet controlled licensing provisions necessary to assure that plant activities can be conducted without endangering the health and safety of the public. The changes simplify the language and therefore may avoid unnecessary license amendments in the future. The licensee has also proposed Technical Specifications for leak testing of radioactive source materials.

Evaluation

We have reviewed the material submitted by the licensee in support of the license amendment and the technical specification change with particular attention to the Radioactive Materials Safety Program. During our

review we have discussed with the licensee a modification to the proposed changes (i.e., removing the 100 millicurie limit for byproduct material and the 100 milligram limit for source and special nuclear material in connection with instrument calibration or sample analysis) which they agreed is desirable to maintain the desired flexibility. We evaluated the personnel qualifications, facilities, equipment, and procedures for handling byproduct, source, and special nuclear material, as described in the August 4, 1975 application and we conclude that they are consistent with the provisions of Regulatory Guide 1.70.3.

We further conclude that the proposed license amendment incorporating provisions relating to leak testing of sealed sources and their inventory, storage, and disposal is acceptable in that it provides reasonable assurance that byproduct, source, and special nuclear material will be stored, used, and accounted for in a manner which meets the applicable radiation protection provisions of 10 CFR Parts 20, 30, 40, and 70.

The licensee's radiation protection program, as supplemented by the proposed Technical Specifications additions, has been evaluated. We have concluded that the incorporation of flexible yet controlled licensing provisions for the receipt, possession, and use of byproduct, source, and special nuclear material into the operating license for the Kewaunee Nuclear Power Plant is acceptable. This amendment to the license does not authorize an increase in the amount of special nuclear material as reactor fuel.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the change 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 change 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: OCT 21 1975

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-305

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

AND 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. 7 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.

This amendment changes the license to provide for standard provisions for special nuclear, source, and byproduct materials and adds surveillance requirements to the Technical Specifications for Radioactive Materials Sources.

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 amendment dated August 4, 1975, as supplemented September 19, 1975, (2) Amendment No. 7 to License No. DPR-43, with Change No. 9 , 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 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 Reactor Licensing.

Dated at Bethesda, Maryland, this

OCT 21 1975

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by
R. A. Purple

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

<i>ms</i> <i>10/10</i>	OFFICE →	RL:ORB#1	OELD AS	RL:ORB#1		
	SURNAME →	J. Neighbors:dc	TOURTELLATTE	RAPurple		
	DATE →	10/1/75	10/ /75	10/2/75		

NOTICING OF PROPOSED LICENSING AMENDMENT

Licensee: Kewaunee

Request for: Changing the operating license for Kewaunee to a generalized
provision for special nuclear, byproduct, and source material

Request Date: August 4, 1975

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

Basis for Decision: This change will provide Kewaunee with the generalized
license provisions for special nuclear, source and byproduct
material used in licensing new plants. The provisions
are specified in Regulatory Guide 1.70.3. Leak testing
and surveillance requirements should enhance safety.
This change does not involve an unreviewed safety question,
nor is there any decrease in the margin of safety or
increase in the probability or consequences of an accident
that would result from this change. This change does not
involve a significant hazards consideration.

CONCURRENCES:

DATE:

1. J. D. Neighbors 8/13/75
2. for R. A. Purple 8/13/75
3. K. R. Goller 8/13/75
4. Tourette by Gallo 9/2/75
Office of Executive Legal Director