



Kewaunee Nuclear Power Plant
N490, State Highway 42
Kewaunee, WI 54216-9511
920-388-2560

Operated by
Nuclear Management Company, LLC



September 13, 2001

Mr. Roger Lanksbury
U.S. Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Lanksbury:

KNPP Technical Specifications and Operating License Revision

The NRC has issued Amendment No. 157 letter dated September 5, 2001 to the KNPP Technical Specifications and Operating License. This amendment is in response to Proposed Amendment No. 172 dated January 18, 2001.

This amendment revised the Kewaunee Nuclear Power Plant (KNPP) Technical Specifications (TSs) 3.10.m to increase the minimum reactor coolant flow from 85,500 gallons per minute (gpm) flow per loop to 93,000 gpm flow per loop.

Please follow the instructions on the attached page. If you have any technical questions, please contact Mark VanNoy at (920) 388-8290. If you have any administrative questions, no longer require a copy of TSs, or you are not the appropriate individual for receipt of these revisions, please contact Sandy at (920) 388-8604.

Sincerely,

Sandy Campion

Sandy Campion

Attachments

cc: KNPP QA Vault

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INSTRUCTION SHEET

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Current Status

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Revision Control

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Appendix A

TS 3.10-10

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Appendix A

TS 3.10-10

TECHNICAL SPECIFICATION

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3.10-10	157	09/05/2001
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170	03/02/2000	TS 3.8-2, TS B3.8-1	147	05/01/2000	TS 3.8-2, TS B3.8-1	TS 3.8-2, TS B3.8-1
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172	01/18/2001	TS 3.10-10	157	09/05/2001	TS 3.10-10	TS 3.10-10
173	02/05/2001	TS 3.1-9, TS B3.1-11 through TS B3.1-12	153	03/27/2001	TS 3.1-9, TS B3.1-11 through TS B3.1-12	TS 3.1-9, TS B3.1-11 through TS B3.1-12
174	04/30/2001	TS Operating License-Pages 1 through 4, TS 5.1-1				
175	04/06/2001	TS 6.2-1, TS 6.13-2	154	06/01/2001	TS 6.2-1, TS 6.13-2	TS 6.2-1, TS 6.13-2
176						
177	05/25/2001	Table of Contents (TS ii, v, vi), TS 4.2-1 through TS 4.2-6, TS B4.2-1 through TS B4.2-3, Table TS 4.2-2, Table TS 4.2-3, Figure TS 4.2-1				
178	06/13/2001	TS 5.3-1	156	08/13/2001	TS 5.3-1	TS 5.3-1

WISCONSIN PUBLIC SERVICE CORPORATION

WISCONSIN POWER AND LIGHT COMPANY

MADISON GAS AND ELECTRIC COMPANY

NUCLEAR MANAGEMENT COMPANY

DOCKET NO. 50-305

KEWAUNEE NUCLEAR POWER PLANT

FACILITY OPERATING LICENSE AS AMENDED

License No. DPR-43

1. The Atomic Energy Commission (the Commission) having found that:

- A. The application for license filed by Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company (the licensees) 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 and all required notifications to other agencies or bodies have been duly made;
- B. Construction of the Kewaunee Nuclear Power Plant (facility) has been substantially completed in conformity with Provisional Construction Permit No. CPPR-50, as amended, and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
- C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
- D. There is reasonable assurance: (i) that the activities authorized by this operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
- E. The Nuclear Management Company, LLC (NMC) is technically qualified and the licensees are financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
- F. The licensees and NMC have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;

- G. The issuance of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering available alternatives, the issuance of Facility Operating License No. DPR-43, subject to the condition for protection of the environment set forth herein, is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied; and
 - I. The receipt, possession, and use of byproduct and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Part 30 and 70, including 10 CFR Section 30.33, 70.23 and 70.31.
2. Facility Operating License No. DPR-43 is hereby issued to NMC, Wisconsin Public Service Corporation, Wisconsin Power and Light Company and Madison Gas and Electric Company, to read as follows:
- A. This license applies to the Kewaunee Nuclear Power Plant, a pressurized water nuclear reactor and associated equipment (the facility), owned by Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company. The facility is located in Kewaunee County, Wisconsin, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 7 through 31) and the Environmental Report as supplemented and amended.
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," Wisconsin Public Service Corporation, Wisconsin Power and Light Company, and Madison Gas and Electric Company to possess, and the NMC to use and operate the facility at the designated location in Kewaunee County, Wisconsin, in accordance with the procedures and limitations set forth in this license;
 - (2) Pursuant to the Act and 10 CFR Part 70, NMC 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, NMC 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, NMC 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, NMC to possess but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR, Chapter 1: Part 20, Section 30.34 of Part 30 Section 40.41 of Part 40, Section 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

The NMC is authorized to operate the facility at steady state reactor core power levels not in excess of 1650 megawatts (thermal).

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 157 are hereby incorporated in the license. The NMC shall operate the facility in accordance with the Technical Specifications.

(3) Fire Protection

The NMC shall implement and maintain in effect all provisions of the approved Fire Protection Program as described in the KNPP Fire Plan, and as referenced in the Updated Safety Analysis Report, and as approved in the Safety Evaluation Reports, dated November 25, 1977, and December 12, 1978 (and supplement dated February 13, 1981) subject to the following provision:

The NMC may make changes to the approved Fire Protection Program without prior approval of the Commission, only if those changes would not adversely affect the ability to achieve and maintain safe shutdown in the event of a fire.

(4) Physical Protection

The NMC shall fully implement and maintain in effect all provisions of the Commission-approved "Kewaunee Nuclear Power Plant Security Manual," Rev. 1, approved by the NRC on December 15, 1989; the "Kewaunee Nuclear Power Plant Security Force Training and Qualification Manual," Rev. 7, approved by the NRC on November 17, 1987; and the "Kewaunee Nuclear Power Plant Security Contingency Plan," Rev. 1, approved by the NRC on September 1, 1983. These manuals include amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p).

(5) Fuel Burnup

The maximum rod average burnup for any rod shall be limited to 60 GWD/MTU until completion of an NRC environmental assessment supporting an increased limit.

(6) Steam Generator Upper Lateral Supports

The design of the steam generator upper lateral supports may be modified by reducing the number of snubbers from four (4) to one (1) per steam generator.

- D. The NMC shall comply with applicable effluent limitations and other limitations and monitoring requirements, if any, specified pursuant to Section 401(d) of the Federal Water Pollution Control Act Amendments of 1972.
- E. This license is effective as of the date of issuance, and shall expire at midnight on December 21, 2013.

m. Reactor Coolant Flow

1. During steady-state power operation, reactor coolant flow rate shall be $\geq 93,000$ gallons per minute average per loop. If reactor coolant flow rate is $< 93,000$ gallons per minute per loop, action shall be taken in accordance with TS 3.10.n.
2. Compliance with this flow requirement shall be demonstrated by verifying the reactor coolant flow during initial power escalation following each REFUELING, between 70% and 95% power with plant parameters as constant as practical.

n. DNBR Parameters

If, during power operation any of the conditions of TS 3.10.k, TS 3.10.l, or TS 3.10.m.1 are not met, restore the parameter in 2 hours or less to within limits or reduce power to $< 5\%$ of thermal rated power within an additional 6 hours. Following analysis, thermal power may be raised not to exceed a power level analyzed to maintain a DNBR greater than the minimum DNBR limit.