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AUG 9 1973

Docket No. 50-282

Northern States Power Company
ATTN: Mr. A. V. Dienhart
Vice President - Engineering
414 Nicollet Avenue
Minneapolis, Minnesota 55401

Gentlemen:

The Commission has issued Facility Operating License DPR-42 (enclosed) to Northern States Power Company to operate Prairie Island Nuclear Generating Plant, Unit 1, for testing purposes at reactor core power levels not to exceed 1485 megawatts thermal (90 percent of rated capacity), and for power generation at steady state reactor core power levels not to exceed 330 megawatts thermal (20 percent of rated capacity), in accordance with the provisions of the license and Technical Specifications. A copy of a related notice which has been forwarded to the Office of the Federal Register for filing and publication is also enclosed.

The license is subject to the condition that operations beyond fuel loading shall not proceed until specifically approved in writing by the Commission. Tests above 5 percent of rated power will not be approved until the plant modifications required by the safety analyses of postulated ruptures of high-energy fluid pipes outside containment are completed. Tests above 20 percent of rated power will not be approved until and unless the Atomic Safety and Licensing Board issues an Order modifying its August 3, 1973 Order to the effect that the time intervals for completing tests at various power levels above 20 percent of rated power need not be limited to a specific number of days.

Handwritten initials/signature

OFFICE ▶						
SURNAME ▶						
DATE ▶						

Two signed copies of an Indemnity Agreement are enclosed for your review and acceptance. Please sign and return one copy of the Agreement to the Directorate of Licensing.

Sincerely,

Original signed by
R. F. ...
Karl Kniel, Chief
Pressurized Water Reactors
Branch No. 2
Directorate of Licensing

Enclosures:

1. License DPR-42
2. Federal Register Notice
3. Indemnity Agreement

ccs:

Gerald Charnoff, Esquire
Shaw, Pittman, Potts & Trowbridge
910 17th Street, N. W.
Washington, D. C. 20006

Mr. Steve J. Gadler, P.E.
2120 Carter Avenue
St. Paul, Minnesota 55108

Mr. Ken Dzugan
Minnesota Pollution Control Agency
717 Delaware Street, S. E.
Minneapolis, Minnesota 55440

Mr. William F. Eich, Chairman
Public Service Commission of Wisconsin
Hill Farms State Office Building
Madison, Wisconsin 53702

OFFICE ▶						
SURNAME ▶						
DATE ▶						

Northern States Power Company - 4 -

ccs (continued):

Colonel William Barnes
 Executive Director of Civil Works
 Office of the Chief of Engineers
 Department of the Army
 Forrestal Building, Room 4-G060
 10th and Independence
 Washington, D. C. 20314

Mr. Bruce Blanchard
 Office of Environmental Projects Review
 Department of Interior
 Room 5321
 18th and C Streets, N. W.
 Washington, D. C. 20240

bcc:

HJMcAlduff, ORO (w/o TS)
 JR Buchanan, ORNL
 TBAbernathy, DTIE
 ARosenthal, ASLAB
 NHGoodrich, ASLBP

OFFICE ▶	L:PWR-2	L:PWR-2	AD:EP	OGC	L:PWR-2	A&I
SURNAME ▶	<i>ms</i> MSBUCE	<i>AK</i> LKintner	<i>DM</i> DMuller	<i>JK</i> JGallo	<i>KK</i> KKniel	<i>JS</i> JSaltzman
DATE ▶	8/7/73	8/7/73	8/7/73	8/6/73	8/7/73	8/9/73

ccs (continued):
Warren R. Lawson, M.D.
Secretary and Executive Officer
State Department of Health
University Campus
Minneapolis, Minnesota 55440

Mr. Edwin L. Demery, Superintendent
U.S. Department of Interior
Bureau of Indian Affairs
Minnesota Agency
Federal Building
Bemidji, Minnesota 56601

Mr. Earl Prigge, Chairman
Goodhue County Board of Commissioners
321 West Third Street
Red Wing, Minnesota 55066

Mr. David Harwood
Director of Technology Assessment Division
ATTN: TIRB
Office of Radiation Programs
Environmental Protection Agency
4th and M Streets, S. W.
Washington, D. C. 20460

Mr. Francis T. Mayo
Regional Administrator
Environmental Protection Agency
1 North Wacker Drive
Chicago, Illinois 60606

Mr. William Holmberg
Office of Federal Activities
Environmental Protection Agency
W-541-B Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460

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Docket No. 50-282

Northern States Power Company
 ATTN: Mr. A. V. Dienhart
 Vice President - Engineering
 414 Nicollet Avenue
 Minneapolis, Minnesota 55401

Gentlemen:

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Insert ① ->

Two signed copies of an Indemnity Agreement are enclosed for your review and acceptance. Please sign and return one copy of the Agreement to the Directorate of Licensing.

Sincerely,

Original signed by
 K. Kniel

Karl Kniel, Chief
 Pressurized Water Reactors Branch No. 2
 Directorate of Licensing

Enclosures:

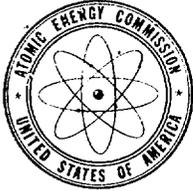
1. License DPR-42
2. Federal Register Notice
3. Indemnity Agreement

bcc: HJMcAlduff, ORO (w/o TS)
 JRBuchanan, ORNL
 TBAbernathy, DTIE
 ARosenthal, ASLAB
 NHGoodrich, ASLBP

ccs:

Listed on page 2

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SURNAME ▶	MSE <i>MMS</i>	LK <i>ML</i>		DM <i>DM</i>	JGallo	KKniel <i>KK</i>
DATE ▶	7/30/73	7/30/73		8/2/73	7/73	7/31/73



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-282

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT 1

FACILITY OPERATING LICENSE

License No. DPR-42

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for license filed by Northern States Power Company (the licensee) 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 that all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Prairie Island Nuclear Generating Plant, Unit 1 (the facility), has been substantially completed in conformity with Provisional Construction Permit No. CPPR-45, as amended, 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 licensee is technically and financially qualified to engage in the activities authorized by this operating license in accordance with the rules and regulations of the Commission;
 - F. The licensee has 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-42 (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-42 is hereby issued pursuant to an Order of the Atomic Safety and Licensing Board dated June 15, 1973, and Memorandum and Order dated July 11, 1973, in accordance with the provisions of the Commission regulations in 10 CFR 50, Section 50.57(c), and Appendix D to Part 50, to Northern States Power Company to read as follows:
- A. This license applies to the Prairie Island Nuclear Generating Plant, Unit 1, a pressurized water nuclear reactor and associated equipment (the facility), owned by the Northern States Power Company. The facility is located in Goodhue County, Minnesota, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 1 through 35) and the Environmental Report as supplemented and amended (Supplements 1 and 2).
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Northern States Power Company:
 - (1) Pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities", to possess, use, and operate the facility at the designated location in Goodhue County, Minnesota, in accordance with the procedures and limitations set forth in this license;
 - (2) Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material", to receive, possess, and use at any time in connection with operation of the facility:

- (a) Uranium-235, 3320 kilograms as reactor fuel assemblies, and 1.5 grams as fission chambers;
 - (b) Plutonium-238, 404 curies as contained in Pu-Be neutron sources;
 - (c) Plutonium-239, 200 grams as contained in Pu-Be neutron sources.
- (3) Pursuant to the Act and 10 CFR Part 30, "Rules of General Applicability to Licensing of Byproduct Material", to receive, possess, and use in connection with operation of the facility:
- (a) Strontium-90, 16 sealed sources, not to exceed 1.0 micro-curies per source;
 - (b) Cobalt-60, 1 sealed source not to exceed 150 millicuries;
 - (c) Cesium-137, 1 sealed source not to exceed 11 millicuries, and 1 sealed source not to exceed 25 curies;
 - (d) Americium-241, 2 sealed sources not to exceed 5 curies per source;
 - (e) Krypton-85, 1 source of 20 millicuries as gas in pressurized cylinder;
 - (f) Any byproduct material with atomic numbers 3 through 83 inclusive, in any physical form, not to exceed 100 micro-curies per source.
- (4) Pursuant to the Act and 10 CFR Parts 30 and 70, 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 I: Part 20, Section 30.34 of Part 30, Sections 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 licensee is authorized to operate the facility for testing purposes at reactor core power levels not in excess of 1485 megawatts thermal (90 percent of the rated capacity), and for power generation at steady state reactor core power levels not in excess of 330 megawatts thermal (20 percent of the rated capacity); provided, however, that the licensee shall not proceed in such operations beyond fuel loading until specifically approved in writing by the Commission.

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B attached hereto are hereby incorporated in this license. The licensee shall operate the facility in accordance with the Technical Specifications.

- D. The plant will be subject to the Environmental Technical Specifications (Appendix B of the license) which include a requirement that the condenser cooling systems will be operated on closed-cycle mode (mechanical draft cooling towers) to the maximum extent practicable.
- E. This license is effective as of the date of issuance and shall expire one year from date of issuance, unless extended for good cause shown, or upon the earlier issuance of a subsequent licensing action.

FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso

A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Attachment:
Appendices A and B -
Technical Specifications

Date of Issuance:

AUG 9 1973

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-282

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT 1

NOTICE OF ISSUANCE OF A FACILITY OPERATING LICENSE

Notice is hereby given that pursuant to an Order of the Atomic Safety and Licensing Board dated June 15, 1973, and Memorandum and Order dated July 11, 1973, the Atomic Energy Commission (the Commission) has issued Facility Operating License No. DPR-42 to Northern States Power Company which authorizes operation of the Prairie Island Nuclear Generating Plant, Unit 1, for testing purposes at reactor core power levels not in excess of 1485 megawatts thermal (90 percent of rated capacity), and for power generation at steady state reactor core power levels not in excess of 330 megawatts thermal (20 percent of rated capacity), in accordance with the provisions of the license and the Technical Specifications. The Prairie Island Nuclear Generating Plant, Unit 1, is a pressurized water nuclear reactor located at the licensee's site in Goodhue County, Minnesota.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license. The application for the license complies with the standards and requirements of the Act and the Commission's rules and regulations.

The license is effective as of its date of issuance and shall expire on August 9, 1974, unless extended for good cause shown or upon the earlier issuance of a superseding operating license.

A copy of (1) Order dated June 15, 1973, and Memorandum and Order dated July 11, 1973; (2) Facility Operating License No. DPR-42, complete with Technical Specifications (Appendices "A" and "B"); (3) the report of the Advisory Committee on Reactor Safeguards dated April 18, 1973; (4) the Directorate of Licensing's Safety Evaluation dated September 28, 1972, and supplements thereto; (5) the Final Safety Analysis Report and amendments thereto; (6) the applicant's Environmental Report dated November 5, 1971, and supplements thereto; (7) the Draft Environmental Statement dated January 1973; and (8) the Final Environmental Statement dated May 1973, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C., and the Environmental Library of Minnesota, 1222 S. E. 4th Street, Minneapolis, Minnesota 55414. A copy of the license and the Safety Evaluation may be obtained upon request addressed to the United States Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing.

Dated at Bethesda, Maryland, this 9th day of August 1973.

FOR THE ATOMIC ENERGY COMMISSION



Karl Kniel, Chief
Pressurized Water Reactors Branch No. 2
Directorate of Licensing