

Docket No. 50-263

Northern States Power Company  
ATTN: Mr. D. F. McElroy  
414 Nicollet Mall  
Minneapolis, Minnesota 55401

Gentlemen:

Pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated January 15, 1971, the Atomic Energy Commission has forwarded to the Office of the Federal Register for filing and publication a notice relating to Amendment No. 1 to Provisional Operating License No. DPR-22 which was issued to Northern States Power Company on September 8, 1970, for the Monticello Nuclear Generating Unit No. 1.

As stated in the notice, Amendment No. 1 to Provisional Operating License No. DPR-22 supersedes the September 8, 1970 License in its entirety and authorizes Northern States to operate the Monticello Nuclear Generating Unit No. 1 at power levels not in excess of 1670 megawatts (thermal), except that Northern States shall not operate the facility at power levels in excess of five (5) megawatts thermal with the reactor vessel head in place, until acceptable performance of the feedwater pumps has been verified in writing by the Commission.

Copies of the License Amendment, the Notice of Issuance of Amendment to Provisional Operating License, and the Initial Decision are enclosed for your information.

Sincerely,

Original Signed by  
Peter A. Morris  
Peter A. Morris, Director  
Division of Reactor Licensing

Enclosures:

1. License Amendment RETYPED AT THE REQUEST OF MR. VASSALLO AND MR. KNOTTS.
2. F. R. Notice
3. Initial Decision Please see attached yellow copy for previous concurrences.

cc w/encs:

Mr. Gerald Charnoff  
Shaw, Pittman, Potts, Trowbridge and Madden  
910 - 17th Street, N.W.  
Washington, D. C. 20006

|         |                    |         |         |  |  |  |
|---------|--------------------|---------|---------|--|--|--|
| OFFICE  | DRL:PWR            | AD/PWRs | DRL     |  |  |  |
| SURNAME | x7401<br>Brown/pjf | DeYoung | Morris  |  |  |  |
| DATE    | 1/19/71            | 1/19/71 | 1/19/71 |  |  |  |

bcc: H. J. McAlduff, ORO  
 E. E. Hall, GMR/H  
 J. A. Harris, PI  
 R. Leith, OC  
 J. R. Buchanan, ORNL  
 T. W. Laughlin, DTIE  
 A. A. Wells, ASLB  
 J. Verme, SMM  
 D. Nussbaumer, DML  
 S. Robinson, SECY  
 J. Saltzman, SLR  
 E. B. Tremmel, IP

Distribution:  
 AEC  
 Docket File  
 PWR-1 Reading  
 DRL Reading  
 DR Reading  
 E. G. Case, DRS  
 OGC  
 R. C. DeYoung  
 Compliance (2)  
 N. Dube (w/5 encls)  
 R. S. Boyd  
 D. Skovholt  
 P. Collins  
 N. M. Brown

Docket No. 50-263

Northern States Power Company  
 ATTN: Mr. D. F. McElroy  
 414 Nicollet Mall  
 Minneapolis, Minnesota 55401

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Pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated January 15, 1971, the Atomic Energy Commission has forwarded to the Office of the Federal Register for filing and publication a notice relating to Amendment No. 1 to Provisional Operating License No. DPR-22 which was issued to Northern States Power Company on September 8, 1970, for the Monticello Nuclear Generating Unit No. 1.

As stated in the notice, Amendment No. 1 to Provisional Operating License No. DPR-22 supersedes the September 8, 1970 License in its entirety and authorizes Northern States to operate the Monticello Nuclear Generating Unit No. 1 at power levels not in excess of 1670 megawatts (thermal), except that Northern States shall not operate the facility at power levels in excess of five (5) megawatts thermal with the reactor vessel head in place, until (notified by the Commission in writing that operation of the feedwater pumps has been demonstrated to the Commission's satisfaction.)

Copies of the License Amendment, the Notice of Issuance of Amendment to Provisional Operating License, and the Initial Decision are enclosed for your information.

Sincerely,

Peter A. Morris, Director  
 Division of Reactor Licensing

Enclosures:

1. License Amendment
2. F. R. Notice
3. Initial Decision

cc w/encls:

Mr. Gerald Charnoff  
 Shaw, Pittman, Potts, Trowbridge and Madden  
 910 - 17th Street, N.W.

Washington, D. C.

|           |                   |                   |         |        |        |
|-----------|-------------------|-------------------|---------|--------|--------|
| OFFICE ▶  | 20006<br>DRL:PWR  | DRL:PWR-1         | AD/PWRs | OGC    | DRL    |
| SURNAME ▶ | X401<br>Brown/pjf | Vassall<br>Muller | DeYoung | Knotts | Morris |
| DATE ▶    | 1/16/71           | 1/ /71            | 1/ /71  | 1/ /71 | 1/ /71 |

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-263

NORTHERN STATES POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENT TO PROVISIONAL OPERATING LICENSE

On September 8, 1970, the Atomic Energy Commission (the Commission) issued Provisional Operating License No. DPR-22 to Northern States Power Company (Northern States), authorizing the licensee to possess, use, and operate the Monticello Nuclear Generating Unit No. 1, a single cycle, forced circulation, boiling water nuclear reactor (the reactor) on Northern States' site in Wright and Sherburne Counties, Minnesota. A notice of issuance of a provisional operating license was published in the Federal Register on September 15, 1970 (35 F.R. 14476).

The reactor is designed to operate at approximately 1670 megawatts thermal, but initial operation was limited to five megawatts thermal and without the reactor head in place to permit initial fuel loading and testing.

Pursuant to the initial decision dated January 15, 1971, of the Atomic Safety and Licensing Board (Board), the Commission has issued, effective as of the date of issuance, Amendment No. 1 to Provisional Operating License No. DPR-22. The amendment supersedes the September 8, 1970, license in its entirety and authorizes Northern States to operate the reactor at power levels not to exceed 1670 megawatts thermal with the reactor vessel head in place; however, operation at power levels in excess of five megawatts thermal with the reactor vessel head in place is subject to satisfactory demonstration of the operation of the plant feedwater pumps.

The Commission's regulatory staff has inspected the facility and has determined that, for operation as authorized by the amendment, the facility has been constructed in accordance with the application as amended, the provisions of Provisional Construction Permit No. CPPR-31, the said initial decision, the Atomic Energy Act of 1954, as amended, and the Commission's regulations. The licensee had previously submitted proof of financial protection and satisfaction of the requirements of 10 CFR Part 140. The Commission's regulatory staff will further inspect the facility to determine whether acceptable performance of the feedwater pumps has been demonstrated. Upon notification by the Commission in writing that such operation has been so demonstrated, Northern States will be authorized to operate the reactor at power levels not to exceed 1670 megawatts thermal.

For further details with respect to this amendment, see (1) the initial decision dated January 15, 1971, (2) Amendment No. 1 to License No. DPR-22 and (3) the Technical Specifications attached to the license, copies of which are available for public inspection at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D. C. Copies of item (2) above may be obtained at the Commission's Public Document Room, or upon request addressed to the Atomic Energy Commission, Washington, D. C. 20545, Attention: Director, Division of Reactor Licensing.

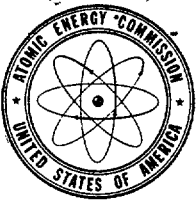
*see  
The  
Aug 14, 1970  
Initial  
Decision*

Dated at Bethesda, Maryland, this 19<sup>th</sup> day of *January*, 1971.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed by  
Peter A. Morris

Peter A. Morris, Director  
Division of Reactor Licensing



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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-263

PROVISIONAL OPERATING LICENSE

Amendment No. 1  
License No. DPR-22

Provisional Operating License No. DPR-22 is hereby superseded being amended in its entirety as follows:

- "1. This license applies to the Monticello Nuclear Generating Plant, Unit No. 1, a single cycle, forced circulation, boiling water nuclear reactor and electric generating equipment (the facility). The facility is located in Wright County on the Northern States' site in Wright and Sherburne Counties, Minnesota, and is described in the "Final Safety Analysis Report," as supplemented and amended (Amendment Nos. 9 through 28).
2. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Northern States:
  - A. Pursuant to Section 104b of the Atomic Energy Act of 1954, as amended (the Act), and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility as a utilization facility at the designated location at the Monticello Nuclear Generating Plant;
  - B. Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess, and use at any one time up to 2300 kilograms uranium 235 as reactor fuel assemblies, one gram of uranium 235 as fission chambers and 16 grams of plutonium as contained in Pu-Be neutron sources in connection with operation of the facility;
  - C. 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; ten sources of Antimony 124, not to exceed 1,250 curies per source;

one source of Americium 241, not to exceed 7 curies; four sources of Cobalt 60, two not to exceed 350 microcuries per source, one not to exceed 500 millicuries and one not to exceed 12.5 millicuries; Strontium 90, not to exceed 1.2 microcuries per source; Cesium 137 not to exceed 8 microcuries per source (all as sealed sources); Americium 241, Cesium 137 and Strontium 90 each not to exceed 1 millicurie per nuclide, and Cobalt 60 not to exceed 27 microcuries (all without restriction as to chemical or physical form); and 2.702 millicuries of Cesium 137, and 0.5405 millicurie of Cobalt 60 (in solution form); and

D. Pursuant to the Act and 10 CFR Parts 30 and 70, to possess, but not separate, such byproduct and special nuclear material as may be produced by the operation of the facility.

3. This license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations: 10 CFR Part 20, Section 30.34 of 10 CFR Part 30, Section 40.41 of 10 CFR Part 40, Sections 50.54 and 50.59 of 10 CFR Part 50, and Section 70.32 of 10 CFR Part 70; and 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 below:

A. Maximum Power Level

Northern States is authorized to operate the facility at power levels not in excess of 1670 megawatts (thermal) except that Northern States shall not operate the facility at power levels in excess of five (5) megawatts thermal with the reactor vessel head in place until acceptable performance of the feed-water pumps has been verified in writing by the Commission.

B. Technical Specifications

The Technical Specifications contained in Appendix A attached hereto are hereby incorporated in this license. Northern States shall operate the facility at power levels not in excess of those authorized under condition 3.A.

above in accordance with the Technical Specifications applicable to such operation and may make changes therein only when authorized by the Commission in accordance with the provisions of Section 50.59 of 10 CFR Part 50.

C. Reports

Northern States shall make certain reports in accordance with the requirements of the Technical Specifications.

D. Records

Northern States shall keep facility operating records in accordance with the requirements of the Technical Specifications.

4. Northern States shall observe such standards and requirements for the protection of the environment as are validly imposed pursuant to authority established under Federal and State law and as determined by the Commission to be applicable to the facility covered by this provisional operating license. This condition does not apply to (a) radiological effects since such effects are dealt with in other provisions of this operating license, or (b) matters of water quality covered by Section 21(b) of the Federal Water Pollution Control Act, as amended.
5. Northern States Power shall comply with all applicable requirements of Section 21(b) of the Federal Water Pollution Control Act.
6. This license is effective as of the date of issuance and shall expire eighteen (18) months from said date, unless extended for good cause shown, or upon the earlier issuance of a superseding operating license."

FOR THE ATOMIC ENERGY COMMISSION

**Original Signed by  
Peter A. Morris**

Peter A. Morris, Director  
Division of Reactor Licensing

Attachment:

Appendix A - Technical Specifications (9-8-70)

Date of Issuance: JAN 19 1971