

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-263

MONTICELLO NUCLEAR GENERATING PLANT, UNIT NO. 1

FACILITY OPERATING LICENSE

License No. DPR-22

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for license by the Northern States Power Company (the licensee) dated June 15, 1972, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 Monticello Nuclear Generating Plant, Unit No. 1 (the facility), has been completed in conformity with Construction Permit No. CPPR-31 and the application, the provisions of the Act, and the regulations of the Commission;
  - C. The facility will operate in conformity with the application, the provisions of the Act, 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 Commission's regulations set forth in 10 CFR Chapter I;
  - E. The licensee is technically and financially qualified to engage in the activities authorized by this operating license in accordance with the Commission's regulations set forth in 10 CFR Chapter I;
  - 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 full term operating license will not be inimical to the common defense and security or to the health and safety of the public;

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- H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of the full-term Facility Operating License No. DPR-22, subject to the conditions 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 have been satisfied; and
  - I. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70.
2. The Provisional Operating License dated September 8, 1970, is superseded by Facility Operating License No. DPR-22 hereby issued to Northern States Power Company to read as follows:
- A. 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) and in its Environmental Report, as supplemented and amended.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses Northern States Power Company:
    - 1. Pursuant to Section 104(b) of 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 in Wright County, Minnesota, in accordance with the procedures and limitations set forth in this license.
    - 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 operations, as described in the Final Safety Analysis Report, as supplemented and amended, and the licensee's filings dated August 16, 1974 (those portions dealing with handling of reactor fuel) and August 17, 1977 (those portions dealing with fuel assembly storage capacity);
    - 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; and
  5. 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 operation of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations in 10 CFR Chapter I 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 or incorporated below:
1. Maximum Power Level

The licensee is authorized to operate the facility at steady state reactor core power levels not in excess of 1670 megawatts (thermal)
  2. Technical Specifications

The Technical Specifications contained in Appendix A as revised through Amendment No. 37, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.
  3. Physical Protection

The licensee shall fully implement and maintain in effect all provisions of the following Commission approved documents, including amendments and changes made pursuant to the authority of 10 CFR 50.54(p). These approved documents consist of information withheld from public disclosure pursuant to 10 CFR 2.790(d):

    - a. "Monticello Nuclear Generating Plant Physical Security Plan- Revision 7 - March 28, 1978, Revision 8 - September 8, 1978.
    - b. "Monticello Nuclear Generating Plant Safeguards Contingency Plan dated March 23, 1979, as revised July 1, 1980, submitted pursuant to 10 CFR 73.40. The Contingency Plan shall be fully implemented, in accordance with 10 CFR 73.40(b), within 30 days of this approval by the Commission.

- c. "Monticello Nuclear Generating Plant Guard Training and Qualification Plan." Revision 1 dated May 23, 1980. This Plan shall be followed in accordance with 10 CFR 73.55(b)(4), 60 days after approval by the Commission. All security personnel, as required in the above plans, shall be qualified within two years of this approval. The licensee may make changes to this plan without prior Commission approval if the changes do not decrease the safeguards effectiveness of the plan. The licensee shall maintain records of and submit reports concerning such changes in the same manner as required for changes made to the Safeguards Contingency Plan pursuant to 10 CFR 50.54(p).

#### 4. Fire Protection

The licensee may proceed with and is required to complete the modifications identified in the NRC's Fire Protection Safety Evaluation (SE) of the facility dated August 29, 1979 and Supplement 1 to this SE dated February 12, 1981. The modifications identified in this SE and its Supplement shall be completed on the following schedule:

- a) Approved modifications in section 3.1 of the SE or Supplement 1 thereto, other than those pertaining to requirements set forth in Sections III-G, III-J, and III-O of 10 CFR 50 Appendix R, are to be completed by February 17, 1981, unless the Director of Nuclear Reactor Regulation determines that there is good cause for extending this date in accordance with 10 CFR 50.48(d).
- b) Approved modifications in section 3.2 of the SE or Supplement 1 thereto, other than those pertaining to requirements set forth in Sections III-G, III-J, and III-O of 10 CFR 50 Appendix R, are to be completed by the dates established by 10 CFR 50.48(d).

#### 5. Emergency Preparedness Plan

The licensee shall follow and maintain in effect emergency plans which meet the standards of 10 CFR 50.47(b) and the requirements in 10 CFR Part 50, Appendix E, including amendments and changes made pursuant to the authority of 10 CFR 50.54(q). The licensee shall meet the requirements of 10 CFR 50.54(s), 50.54(t), and 50.54(u).

#### 6. TMI Action Plan

The licensee has satisfactorily met all TMI-2 Lessons Learned Category "A" requirements applicable to the facility. The licensee shall make a timely submittal in response to the letter dated October 31, 1980 regarding post-TMI requirements from Darrell G Eisenhut, Director Division of Licensing, Office of Nuclear Reactor Regulation to All Licensees of Operating Plants and Applicants for Operating Licenses and Holders of Construction Permits (NUREG-0737).

7. Repairs to the Recirculation System Piping

The repairs to the recirculation system piping are approved and the unit is hereby authorized to return to power operation, subject to the following condition:

Prior to the startup of Cycle 11, the licensee shall submit by August 1, 1983 for the Commission's review and approval, a program for inspection and/or modification of the recirculation system piping.

- D. Northern States Power Company shall immediately notify the NRC of any accident at this facility which could result in an unplanned release of quantities of fission products in excess of allowable limits for normal operation established by the Commission.
- E. Northern States Power Company shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.
- F. The licensee 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 facility operating license.
- G. This license is effective as of the date of issuance and shall expire midnight September 8, 2010.

FOR THE NUCLEAR REGULATORY COMMISSION

/s/

Attachment:  
Appendix A and B Technical  
Specifications

Date of Issuance:  
January 9, 1981