

April 3, 1984

Docket No. 50-263

Mr. D. M. Musolf  
Nuclear Support Services Department  
Northern States Power Company  
414 Nicollet Mall - 8th Floor  
Minneapolis, Minnesota 55401

Dear Mr. Musolf:

The Commission has issued the enclosed Amendment No. 23 to Facility Operating License No. DPR-22 for the Monticello Nuclear Generating Plant. The amendment consists of changes to the Technical Specifications in response to your February 15, 1983 application, as supplemented on April 27, 1983.

The amendment authorizes a change to the Technical Specifications to increase the time delay of the RPS power monitoring system from 100 milliseconds to four seconds.

A copy of our Safety Evaluation is enclosed.

Sincerely,

Original signed by/

Vernon L. Rooney, Project Manager  
Operating Reactors Branch #2  
Division of Licensing

Enclosures:

- 1. Amendment No. 23 to License No. DPR-22
- 2. Safety Evaluation

cc w/enclosures:  
See next page

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Mr. D. M. Musolf  
Northern States Power Company  
Monticello Nuclear Generating Plant

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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-263

MONTICELLO NUCLEAR GENERATING PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 23  
License No. DPR-22

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Northern States Power Company (the licensee) dated February 15, 1983, as supplemented on April 27, 1983, 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 requirements;
  - 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; and;
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.2 of Facility Operating License No. DPR-22 is hereby amended to read as follows:

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2 Technical Specifications

The Technical Specifications contained in Appendix A as revised through Amendment No. 23 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

  
Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: April 3, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 23

FACILITY OPERATING LICENSE NO. DPR-22

DOCKET NO. 50-263

Revise the Appendix A Technical Specifications by removing page 27 and inserting revised page 27.

### 3.0 LIMITING CONDITIONS FOR OPERATION

B. Upon discovery that the requirements for the number of operable or operating trip systems or instrument channels are not satisfied, action shall be initiated to:

1. Satisfy the minimum requirements by placing appropriate devices, channels, or trip systems in the tripped condition, or
2. Place and maintain the plant under the specified required conditions using normal operating procedures.

#### C. RPS Power Monitoring System

1. Except as specified below, both channels of the power monitoring system for the MG set or alternate source supplying each reactor protection system bus shall be operable with the following setpoints:

		<u>Time Delay</u>
a. Over-voltage	- $\leq 128$ VAC	$\leq 4$ seconds
b. Under-voltage	- $\geq 104$ VAC	$\leq 4$ seconds
c. Under-frequency	- $\geq 57$ HZ	$\leq 4$ seconds

2. With one RPS electric power monitoring channels for the MG set or alternate source supplying each reactor protection system bus inoperable, restore the inoperable channel to Operable status within 72 hours or remove the associated RPS MG set or alternate power supply from service.
3. With both RPS electric power monitoring channels for the MG set or alternate source supplying each reactor protection system bus inoperable, restore at least one to Operable status within 30 minutes or remove the associated RPS MG set or alternate power supply from service.

### 4.0 SURVEILLANCE REQUIREMENTS

B. Once per day during power operation the MFLPD (Maximum Fraction of Limiting Power Density) shall be checked and the scram setting given by the equation in Specification 2.3.A shall be adjusted if necessary.

#### C. RPS Power Monitoring System

1. Instrument Functional Tests of each RPS power monitoring channel shall be performed at least once every six months.
2. At least once each Operating Cycle an Instrument Calibration of each RPS power monitoring channel shall be performed to verify over-voltage, under-voltage, and under-frequency setpoints.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 23 TO FACILITY OPERATING

LICENSE NO. DPR-22

NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT

DOCKET NO. 50-263

1.0 Introduction

By letter dated February 15, 1983, Northern States Power Company (the licensee) proposed a change to the Technical Specifications (TS) of Facility Operating License No. DPR-22 for the Monticello Nuclear Generating Plant. The revisions to the Technical Specifications, Section 3.1.C.1, would change the reactor protection system (RPS) power monitoring system setpoint time delays. The amendment would increase the time delays for all three protective trips from 100 milliseconds to four seconds. The proposed change would allow an under voltage, over voltage, or under frequency condition to exist up to four seconds. The present time delays of 100 milliseconds and associated modifications to the RPS power supply were evaluated by the staff and found acceptable in our previous Safety Evaluation dated November 30, 1982.

2.0 Evaluation

The time delays in the RPS power supply protective trips are provided to ensure prevention of spurious and unwarranted separation of the RPS buses from an abnormal power supply. However, in doing so, the trip values should be chosen so as not to stress the components to be protected. The RPS bus components and the power monitoring system are supplied by General Electric to the licensee. To support the amendment request, the licensee submitted, in a letter dated April 27, 1983, a report, prepared by General Electric, which provides information to support a maximum four second time delay for each of the three protective trips, i.e., under voltage, over voltage, and under frequency. This extension of the electrical protection assembly time delays reflects the conclusion of a study of the RPS bus components.

The proposed change, to four seconds, would increase the stability of the alternate source, supplying the RPS bus power and would prevent premature and spurious trips from occurring during routine switching operations. Therefore, the staff finds acceptable the proposed time delay of four seconds because it will prevent spurious and unwarranted trips, and is within the rating of the RPS bus components, as certified by General Electric.

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Based on our evaluation, we conclude that the proposed changes to the Technical Specifications, Section 3.1.C.1, provide trip setpoints that adequately protect the RPS bus loads from abnormal power conditions, without causing spurious trips and are, therefore, acceptable.

#### 4.0 Environmental Considerations

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR 51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

#### 5.0 Conclusions

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: I. Ahmed

Dated: April 3, 1984