

March 28, 1991

Docket No. 50-263

Mr. T. M. Parker, Manager
Nuclear Support Services
Northern States Power Company
414 Nicollet Mall
Minneapolis, Minnesota 55401

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Dear Mr. Parker:

SUBJECT: AMENDMENT NO. 78 TO FACILITY OPERATING LICENSE NO. DPR-22:
(TAC NO. 79115)

The Commission has issued the enclosed Amendment No. 78 to Facility Operating License No. DPR-22 for the Monticello Nuclear Generating Plant. The amendment consists of changes to the Technical Specifications (TS) in response to your application dated November 14, 1990.

The amendment revises the TS to provide for the use, by an individual or group of individuals in a high radiation area, of an integrating alarming dosimeter as an alternative to use of a device which continuously indicates the radiation dose rate. Also, qualified health physics personnel (and personnel whom they are escorting) are exempted from the requirements for Radiation Work Permit coverage while in high radiation areas (≤ 1000 mrem/hr), in the performance of their duties. Minor editorial changes for improved consistency with the wording of NUREG-0123 "Standard Technical Specifications for BWRs" are also included.

A copy of our related Safety Evaluation is also enclosed. A Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

/s/

William O. Long, Project Manager
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 78 to License No. DPR-22
2. Safety Evaluation

cc w/enclosures:
See next page

*See previous concurrence

LA/PD31: DRSP	PM/PD31: DRSP
PShuttleworth	WLong
03/07/91	03/07/91

*D/PRPB
LCunningham
02/12/91

D/PD31: DRSP
LMarsh
3/26/91

*OGC
03/14/91

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LCunningham
02/12/91

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LMarsh
3/24/91

*OGC
03/14/91



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

March 28, 1991

Docket No. 50-263

Mr. T. M. Parker, Manager
Nuclear Support Services
Northern States Power Company
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Sincerely,

A handwritten signature in black ink that reads "William O. Long". The signature is fluid and cursive, with a long horizontal stroke at the end.

William O. Long, Project Manager
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Enclosures:

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2. Safety Evaluation

cc w/enclosures:
See next page

Mr. T. M. Parker, Manager
Northern States Power Company

Monticello Nuclear Generating Plant

cc:

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Shaw, Pittman, Potts and
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Plant Manager
Monticello Nuclear Generating Plant
Northern States Power Company
Monticello, Minnesota 55362

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Minnesota Environmental Control
Citizens Association (MECCA)
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Regional Administrator, Region III
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Commissioner of Health
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O. J. Arlien, Auditor
Wright County Board of
Commissioners
10 NW Second Street
Buffalo, Minnesota 55313



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. 78
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 November 14, 1990, 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 regulations;
 - 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:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 78, 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



L. B. Marsh, Director
Project Directorate III-1
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 28, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 78

FACILITY OPERATING LICENSE NO. DPR-22

DOCKET NO. 50-263

Revise Appendix A Technical Specifications by removing the page identified below and inserting the attached page. The revised page is identified by amendment number and contains marginal lines indicating the area of change.

REMOVE

244a

INSERT

244a

B. Radiological

1. a. A Radiation Protection Program, consistent with the requirements of 10 CFR 20, shall be developed and followed. The Radiation Protection Program shall consist of the following:

- (1) A Radiation Protection Plan, which shall be a complete definition of radiation protection policy and program
- (2) Procedures which implement the requirements of the Radiation Protection Plan

The Radiation Protection Plan and implementing procedures, with the exception of those non-safety related procedures governing work activities exclusively applicable to or performed by health physics personnel, shall be reviewed by the Operations Committee and approved by a member of plant management designated by the Plant Manager. Health physics procedures not reviewed by the Operations Committee shall be reviewed and approved by the Superintendent, Radiation Protection.

b. In lieu of the "control device" or "alarm signal" required by paragraph 20.203(c)(2) of 10CFR20, each high radiation area in which the intensity of radiation is greater than 100 mrem/hr but less than 1000 mrem/hr shall be barricaded and conspicuously posted as a high radiation area and entrance thereto shall be controlled by requiring issuance of a Radiation Work Permit.¹ Any individual or group of individuals permitted to enter such areas shall be provided with or accompanied by one or more of the following:

- (1) A radiation monitoring device which continuously indicates the radiation dose rate in the area.
- (2) A radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a present integrated dose is received. Entry into such areas with this monitoring device may be made after the dose rate level in the area has been established and personnel have been made knowledgeable of them.
- (3) An individual qualified in radiation protection procedures who is equipped with a radiation dose rate monitoring device. This individual shall be responsible for providing positive control over the activities within the area and shall perform periodic radiation surveillance at the frequency specified by the unit Health Physicist in the Radiation Work Permit.

c. The above procedure shall also apply to each high radiation area in which the intensity of radiation is greater than 1000 mrem/hr. In addition doors shall be locked or attended, to prevent unauthorized entry into these areas and the keys or key devices for locked doors shall be maintained under the administrative control of the Plant Manager.

1. Health Physics personnel or personnel escorted by Health Physics personnel shall be exempt from the Radiation Work Permit issuance requirement during the performance of their assigned radiation protection duties, provided they comply with approved radiation protection procedures for entry into high radiation areas. This footnote applies only to high radiation areas of 1000 mrem/hr or less.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 78 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 November 14, 1990, Northern States Power Company (the licensee) requested an amendment to the Technical Specifications (TS) appended to Facility Operating License No. DPR-22 for the Monticello Nuclear Generating Plant. The proposed amendment would provide for the use, by an individual or group of individuals in a high radiation area, of an integrating alarming dosimeter as an alternative to use of a device which continuously indicates the radiation dose rate. Also, qualified health physics personnel, and personnel whom they are escorting, while following approved procedures, would be exempted from the requirements for Radiation Work Permit coverage in the performance of their duties in high radiation areas (≤ 1000 mrem/hr) provided they comply with approved radiation protection procedures for entry into high radiation areas. Minor editorial changes for improved consistency with the wording of NUREG-0123 "Standard Technical Specifications for BWRs" are also included.

A discussion of each requested change and the NRC staff's evaluation and findings relative to each are addressed in Section 2 of this Safety Evaluation.

2.0 EVALUATION

Alarming Dosimeters: The proposed amendment would revise Section 6.5.B, page 244a, to permit the use of "a radiation monitoring device which continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received." This instrument could then be used in lieu of a "radiation monitoring device which continuously indicates the radiation dose rate in the area." Since it is the total integrated dose that is of concern to a worker in a controlled area, an alarming, integrating dosimeter is the preferable device. The proposed change is, therefore, acceptable.

Radiation Work Permit Requirements: The proposed amendment would also revise Section 6.5.B so as to exempt qualified and properly equipped health physics personnel, and any personnel whom they are escorting, from the requirement to be covered by radiation work permit while in performance of radiation protection duties provided they comply with approved radiation protection procedures for entry into high radiation areas. (This would not apply to high radiation areas in which personnel could receive a dose of greater than 1.0 rem in one hour). This is acceptable on the basis that health physics personnel

have greater knowledge of radiation protection needs than other workers, are subject to appropriate administrative controls, and can exercise positive controls over those being escorted. Furthermore they may in fact be entering the controlled area for the purpose of establishing RWP requirements.

The above changes are consistent with staff positions as documented in NUREG-0123, "BWR Standard Technical Specifications", and are acceptable.

Minor Editorial Changes: The application requests certain other changes to Section 6.5.B:

- (a) The requirements of 6.5.B.1.b relating to high radiation area requirements for areas of 1000 mrem/hr or less intensity would be clarified as being applicable to such areas only if they have a radiation intensity greater than 100 mrem/hr. This clarification of "high radiation area" is consistent with paragraph 20.202(b)(3) of 10 CFR Part 20.
- (b) The first sentence of 6.5.B.1.c would be split into two sentences with the second of the two sentences being split with a comma.
- (c) In 6.5.B.1.b, a reference to "paragraph 20.203(c)(2)" would be changed to a reference to "paragraph 20.203(c)(2) of 10 CFR Part 20." Also, an unnecessary statement of the title of Section 20.203 of 10 CFR Part 20 "Caution signs, labels, signals and controls" would be deleted.

These items are editorial or clarifying in nature and are acceptable on that basis.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes to the surveillance requirements. We have determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously published a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9) and (10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

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, (2) such activities will be

conducted in compliance with the Commission's regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: W. Long, NRR

Date: March 28, 1991