



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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-282

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 83  
License No. DPR-42

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Northern States Power Company (the licensee) dated November 3, 1987, 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-42 is hereby amended to read as follows:

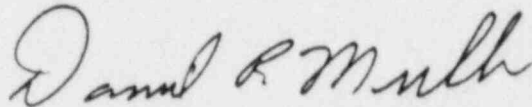
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Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 83, 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



Daniel R. Muller, Acting Director  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 31, 1988



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

NORTHERN STATES POWER COMPANY

DOCKET NO. 50-306

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 76  
License No. DPR-60

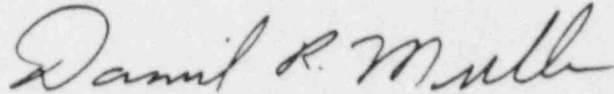
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Northern States Power Company (the licensee) dated November 3, 1987, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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-60 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 76, 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



Daniel R. Muller, Acting Director  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 31, 1988

ATTACHMENT TO LICENSE AMENDMENTS NOS. 83 AND 76  
FACILITY OPERATING LICENSES NOS. DPR-42 AND DPR-60  
DOCKETS NOS. 50-282 AND 50-306

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 a marginal line indicating the area of change.

REMOVE

TS.2.3-1

INSERT

TS.2.3-1

## 2.3 LIMITING SAFETY SYSTEM SETTINGS, PROTECTIVE INSTRUMENTATION

Applicability

Applies to trip settings for instruments monitoring reactor power and reactor coolant pressure, temperature, flow, and pressurizer level.

Objective

To provide for automatic protective action in the event that the principal process variables approach a safety limit.

Specification

A. Protective instrumentation settings for reactor trip shall be as follows:

## 1. Startup protection

- a. High flux, intermediate range (high set point) - current equivalent to  $\leq 40\%$  of full power.
- b. High flux, power range (low set point) -  $\leq 40\%$  of rated power.
- c. High flux, source range - neutron flux  $\leq 10^6$  counts/second

## 2. Core protection

- a. High flux, power range (high set point) -  $\leq 108\%$  of rated power.
- b. High pressurizer pressure -  $\leq 2385$  psig.
- c. Low pressurizer pressure -  $\geq 1815$  psig.
- d. Overtemperature  $\Delta T$

$$\Delta T_t \leq \Delta T_o \left[ K_1 - K_2 (T - T') \left( \frac{1+t_1/s}{1+t_2/s} \right) + K_3 (P - P') - f (\Delta I) \right]$$

where

$\Delta T_o$	=	Indicated $\Delta T$ at rated power
$T$	=	Average temperature, °F
$T'$	=	567.3°F
$P$	=	Pressurizer pressure, psig
$P'$	=	psig 2235
$K_1$	$\leq$	1.11
$K_2$	=	0.0090
$K_3$	=	0.000566
$t_1$	=	30 sec
$t_2$	=	4 sec