

50-263

## NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

INCIDENT REPORT

TO:

Mr. J. G. Keppler

FROM:

Northern States Power Company  
Minneapolis, Minn.  
L. O. Mayer

DATE OF DOCUMENT

8/11/76

DATE RECEIVED

8/13/76

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

☐ ORIGINAL☒ UNCLASSIFIED☒ COPY

One signed copy

## DESCRIPTION

Ltr. trans the following:

(1-P)

PLANT NAME:

Monticello

## ENCLOSURE

Licensee Event Report (RO 50-263-76-12) on  
8/5/76 concerning reduction in MAPLHGR limits  
at reduced core flow.

DO NOT REPLY

ACKNOWLEDGED

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINSAC  
4

FOR ACTION/INFORMATION

8/16/76

RJL

☒ BRANCH CHIEF:

Ziemann

W/3 CYS FOR ACTION

☒ LIC. ASST.:

Diggs

W/1 CYS

ACRS 16 CYS HOLDING/SENT TO LA

## INTERNAL DISTRIBUTION

☒ REG FILE☒ NRC PDR☒ I & E (2)☒ MIPC☒ SCHROEDER/IPPOLITO☒ HOUSTON☒ NOVAK/CHECK☒ GRIMES☒ CASE☒ BUTLER☒ HANAUER☒ TEDESCO/MACCARY☒ EISENHUT☒ BAER☒ SHAO☒ VOLLMER/BUNCH☒ KREGER/J. COLLINS

## EXTERNAL DISTRIBUTION

☒ LPDR:Minneapolis, Minn.☒ TIC:☒ NSIC:

CONTROL NUMBER

8263

# NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

Regulatory Docket #176

August 11, 1976

Mr J G Keppler, Director, Region III  
Office of Inspection & Enforcement  
U S Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Dear Mr Keppler:

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

Reduction in MAPLHGR Limits at Reduced Core Flow

The Licensee Event Report for this occurrence is reproduced on the back of this letter. Enclosed are 3 copies.

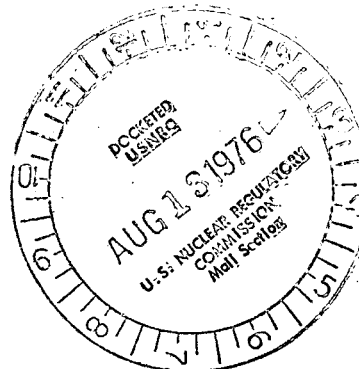
Yours very truly,

*L. O. Mayer*

L O Mayer, PE  
Manager, Nuclear Support Services

LOM/MHV/deb

cc: Director, IE, USNRC (40)  
Director, MIPC, USNRC (3)  
G Charnoff  
MPCA  
Attn: J W Ferman



8263

# LICENSEE EVENT REPORT

CONTROL BLOCK: 1         6

[PLEASE PRINT ALL REQUIRED INFORMATION]

LICENSEE NAME														LICENSE NUMBER										LICENSE TYPE					EVENT TYPE										
01	M	N	M	N	P	1									0	0	-	0	0	0	0	-	0	0	4	1	1	1	1	0	1								
7	8	9				14	15																	25	26				30	31	32								
CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER										EVENT DATE					REPORT DATE																		
01	CONT				T	L											0	5	0	-	0	2	6	3	0	8	0	5	7	6	0	8	1	1	7	6			
7	8		57	58	59	60	61																	68	69				74	75									80

**EVENT DESCRIPTION**

02	Generic ECCS Model Analysis for BWR-3's indicates 2200°F PCT may be exceeded at																																
7	8	9																															80
03	reduced core flows. A 5% reduction in MAPLHGR at less than 85% core flow has been																																
7	8	9																															80
04	implemented. This will continue until further analysis is completed. No similar																																
7	8	9																															80
05	previous occurrences. (M-RO-76-12)																																
7	8	9																															80
06																																	
7	8	9																															80

SYSTEM CODE				CAUSE CODE		COMPONENT CODE						PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
07	S	F	B			Z	Z	Z	Z	Z	Z	N		G	0	8	0	N	
7	8	9	10	11	12							17	43	44				47	48

**CAUSE DESCRIPTION**

08	At reduced flows where the onset of transition boiling could occur, conservative																																
7	8	9																															80
09	heat transfer coeff's. are applied which decrease heat transfer away from clad and																																
7	8	9																															80
10	increase PCT.																																
7	8	9																															80

FACILITY STATUS			% POWER			OTHER STATUS							METHOD OF DISCOVERY		DISCOVERY DESCRIPTION																						
11	Z			0	0	0	NA							D			NA																				
7	8	9	10	11	12	13							44	45	46											80											
FORM OF ACTIVITY RELEASED			CONTENT OF RELEASE			AMOUNT OF ACTIVITY																	LOCATION OF RELEASE														
12	Z			Z			NA																	NA													
7	8	9	10	11																																	60

**PERSONNEL EXPOSURES**

NUMBER			TYPE		DESCRIPTION																												
13	0	0	0	Z	NA																												
7	8	9	11	12	13																												80

**PERSONNEL INJURIES**

NUMBER			DESCRIPTION																													
14	0	0	0	NA																												
7	8	9	11	12																												80

**OFFSITE CONSEQUENCES**

15	NA																																
7	8	9																															80

**LOSS OR DAMAGE TO FACILITY**

TYPE		DESCRIPTION																														
16	Z	NA																														
7	8	9	10																													80

**PUBLICITY**

17	NA																																
7	8	9																															80

**ADDITIONAL FACTORS**

18	NA																																
7	8	9																															80

19																																	
7	8	9																															80

NAME: D E Nevinski PHONE: 612/295-5151

# NSP

NORTHERN STATES POWER COMPANY  
Monticello Nuclear Generating Plant  
Monticello, MN 55362

August 6, 1976

Mr. J. G. Keppler, Director  
Region III  
Office of Inspection and Enforcement  
United States Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

On August 5, 1976, we were notified by General Electric Co. of an analytical phenomenon generic to BWR-3's in the ECOS model for boiling water reactors. At reduced core flow there is a point for which the model calculates resultant peak clad temperature in excess of the 2200°F limit during a LOCA.

To prevent this potentiality, a 5% reduction in allowable Maximum Average Planar Linear Heat Generation Rate (MAPLHGR) at core flow below 85% of rated has been administratively implemented. This will continue until further ECOS Model analysis is completed.

Yours very truly,

  
L. R. Eliason  
Plant Manager

LRE/sdd

cc: Director, Office of Management Information &  
Program Control  
G. Charnoff  
Minnesota Pollution Control Agency  
Attn: J W Ferman  
File

Copy sent by telecopier to Keppler

Rec'd 1:31 8/6/76