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FROM: Northern States Power Co. Minneapolis, Minn. L. O. Mayer			DATE OF DOC UNDTD	DATE REC'D 6-24-74	LTR X	TWX	RPT	OTHER
TO: J. F. O'Leary			ORIG	CC 40	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-263		
	XXX							

DESCRIPTION:

Ltr furn info re abnormal occurrence #A0 263/74-15 of 5-21-74 re inoperability of a main steam line radiation monitors.....

ENCLOSURES:

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: MONTICELLO

FOR ACTION/INFORMATION 6-24-74 GMC

BUTLER (L)	SCHWENGER (L)	✓ ZIEMANN (L)	REGAN (E)
W/ CYS	W/ CYS	W/ 7 CYS	W/ CYS
CLARK (L)	STOLZ (L)	DICKER (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS
DARR (L)	VASSALLO (L)	KNIGHTON (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS
KNIEL (L)	PURPLE (L)	YOUNGBLOOD (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS

INTERNAL DISTRIBUTION

✓ REG FILE	✓ TECH REVIEW	DENTON	✓ LIC ASST	A/T IND
✓ AEC PDR	✓ HENDRIE	GRIMES	✓ DIGGS (L)	BRAITMAN
✓ OGC	✓ SCHROEDER	GAMMILL	GEARIN (L)	SALTZMAN
✓ MUNTZING/STAFF	✓ MACCARY	KASTNER	GOULBOURNE (L)	B. HURT
✓ CASE	✓ KNIGHT	BALLARD	KREUTZER (E)	
GIAMBUSSO	✓ PAWLICKI	SPANGLER	LEE (L)	<u>PLANS</u>
BOYD	✓ SHAO		MAIGRET (L)	MCDONALD
MOORE (L)(LWR-2)	✓ STELLO	<u>ENVIRO</u>	REED (E)	CHAPMAN
DEYOUNG (L)(LWR-1)	✓ HOUSTON	MULLER	SERVICE (L)	DUBE w/input
✓ SKOVHOLT (L)	✓ NOVAK	DICKER	SHEPPARD (L)	E. COUPE
✓ GOLLER (L)	✓ ROSS	KNIGHTON	SLATER (E)	
P. COLLINS	✓ IPPOLITO	YOUNGBLOOD	SMITH (L)	✓ D. THOMPSON (2)
DENISE	✓ TEDESCO	REGAN	TEETS (L)	✓ KLECKER
✓ REG OPR	✓ LONG	PROJECT MGR	WILLIAMS (E)	✓ EISENHUT
✓ FILE & REGION (3)	✓ LAINAS		WILSON (L)	
✓ MORRIS	✓ BENAROYA	<u>HARLESS</u>		
✓ STEELE	✓ VOLLMER			

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR <u>MINNEAPOLIS, MINN</u>			
✓ 1 - TIC (ABERNATHY)	(1)(2)(10)-NATIONAL LABS		1-PDR-SAN/LA/NY
✓ 1 - NSIC (BUCHANAN)	1-ASLBP(E/W Bldg, Rm 529)		1-BROOKHAVEN NAT LAB
1 - ASLB	1-W. PENNINGTON, Rm E-201 GT		1-G. ULRIKSON, ORNL
✓ 1 - P. R. DAVIS	1-B&M SWINEBROAD, Rm E-201 GT		1-AGMED (RUTH GUSSMAN)
✓ 16 - ACRS HOLDING	1-CONSULTANTS		Rm B-127 GT
Sent to Lic Asst Diggs 6-24-74	NEWMARK/BLUME/AGBABIAN		1-RD..MUELLER, Rm F-300A
			GT

NSP**NORTHERN STATES POWER COMPANY**

MINNEAPOLIS, MINNESOTA 55401

Mr. J F O'Leary, Director
 Directorate of Licensing
 Office of Regulation
 U S Atomic Energy Commission
 Washington, DC 20545

ABNORMAL OCCURRENCE REPORT TO THE AEC

Inoperability of the Main Steam Line Radiation Monitors

1. Report Number: AO 263/74-15
- 2a. Report Date: June 20, 1974
- 2b. Occurrence Date: May 21, 1974
3. Facility: Monticello Nuclear Generating Plant (DPR-22)
 Monticello, Minnesota 55362
4. Identification of Occurrence:

This report concerns inoperability of the main steam line radiation monitors which constitutes an Abnormal Occurrence and is reported in accordance with Section 6.7.B.1, Appendix A Technical Specifications, of Provisional Operating License DPR-22.

5. Conditions Prior to Occurrence:

Routine startup operation.

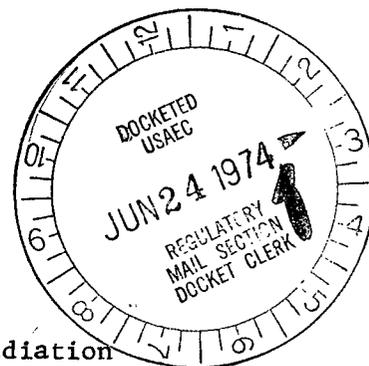
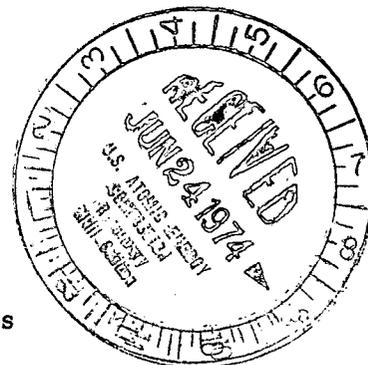
6. Description of Occurrence:

On May 21, 1974, while a reactor startup was in progress, the high voltage power supply fuses in two of the four main steam line radiation monitors were found blown. As a result of the undetected blown fuses, both monitors were incapable of performing their protective function.

The four main steam line radiation monitors are connected in a "one-of-two twice" logic scheme to initiate a reactor scram and Group 1 isolation upon detection of high radiation in the vicinity of the main steam lines. Both inoperable monitors were connected in the "B" protection logic channel. The protective function of the monitors was therefore disabled for approximately five hours.

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The failed high voltage power supply fuses were replaced and the radiation monitors were functionally tested to demonstrate operability. The significance of the malfunction was not realized until June 10, 1974.

7. Designation of Apparent Cause of Occurrence:

The cause of the blown fuses could not be determined. The fuses were replaced and the radiation monitors were functionally tested and found to operate properly.

8. Analysis of Occurrence:

The main steam line monitors are installed to initiate a reactor isolation in the event of possible gross fuel failure following a rod drop accident. Considering the extremely low probability of such an occurrence and the short time during which the monitors were inoperable, there was no significant danger to the health and safety of the public.

9. Corrective Action:

The addition of a high voltage operability monitor, designed to initiate an automatic trip of a channel upon detection of high voltage power supply failure, is being investigated. As a short term preventive measure, the surveillance log has been modified to identify any monitor indication deviation which exceeds established limits and consider it as a failure of the lower reading channel.

10. Failure Data:

This is the first instance of such a failure at Monticello.

No defective component or design deficiency has been identified at this time.

L O Mayer / DMM

L O Mayer, PE
Director of Nuclear Support Services

LOM/DMM/kn

cc: J G Keppler
G Charnoff
Minnesota Pollution Control Agency
Attn. E A Pryzina