

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 6387

FILE: \_\_\_\_\_

FROM: Northern States Power Company Minneapolis, Minn. 55401 L. O. Moyer		DATE OF DOC 8-17-73	DATE REC'D 8-22-73	LTR X	MEMO	RPT	OTHER
TO: John F. O'Leary		ORIG 1 signed	CC 39	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS	UNCLASS XXXX	PROP INFO	INPUT	NO CYS REC'D 40	DOCKET NO: 50-263		

DESCRIPTION:  
Ltr reporting an abnormal occurrence on 8-10-73, regarding failure of Main Steam Line Drain Valve, M0-2374, to close.....

ENCLOSURES:

**ACKNOWLEDGED**

**DO NOT REMOVE**

PLANT NAME: Monticello Plant

FOR ACTION/INFORMATION 8-23-73 GC

- |                        |                           |                            |                       |
|------------------------|---------------------------|----------------------------|-----------------------|
| BUTLER(L)<br>W/ Copies | SCHWENCER(L)<br>W/ Copies | ✓ZIEMANN(L)<br>W/7 Copies  | REGAN(E)<br>W/ Copies |
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INTERNAL DISTRIBUTION

- |  |  |  |  |  |
|--|--|--|--|--|
| <u>REG FILE</u><br>✓AEC PDR<br>✓OGC, ROOM P-506A<br>✓MUNTZING/STAFF<br>✓CASE<br>GIAMBUSO<br>BOYD<br>MOORE (L)(BWR)<br>DEYOUNG(L)(PWR)<br>✓SKOVHOLT (L)<br>P. COLLINS | <u>TECH REVIEW</u><br>✓HENDRIE<br>SCHROEDER<br>✓MACCARY<br>✓KNIGHT<br>✓PAWLICKI<br>✓SHAO<br>✓STELLO<br>✓HOUSTON<br>✓NOVAK<br>✓ROSS<br>✓IPPOLITO<br>✓TEDESCO<br>✓LONG<br>✓LAINAS<br>✓BENAROYA<br>✓VOLLMER | DENTON<br>GRIMES<br>GAMMILL<br>KASTNER<br>BALLARD<br>SPANGLER<br><br>ENVIRO<br>MULLER<br>DICKER<br>KNIGHTON<br>YOUNGBLOOD<br>REGAN<br>PROJECT LDR<br><br>HARLESS | <u>LIC ASST</u><br>✓DIGGS (L)<br>GEARIN (L)<br>GOULBOURNE (L)<br>LEE (L)<br>MAIGRET (L)<br>SERVICE (L)<br>SHEPPARD (E)<br>SMITH (L)<br>TEETS (L)<br>WADE (E)<br>WILLIAMS (E)<br>WILSON (L) | <u>A/T IND</u><br>BRAITMAN<br>SALTZMAN<br><br><u>PLANS</u><br>MCDONALD<br>DUBE<br><br><u>INFO</u><br>C. MILES<br>✓B. King (RO) |
|--|--|--|--|--|

EXTERNAL DISTRIBUTION

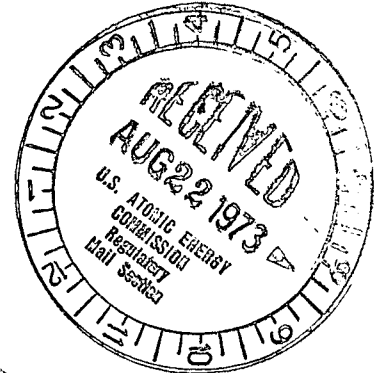
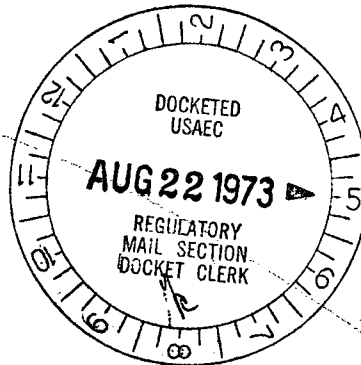
- |   |  |  |
|---|--|--|
| ✓1 - LOCAL PDR Minneapolis, Minn.                                     | (1) (2) (10) - NATIONAL LAB'S                      | 1-PDR-SAN/LA/NY                        |
| ✓1 - DTIE (ABERNATHY)   | 1-R. Schoonmaker, OC, GT, D-323                    | 1-GERALD LELLOUCHE                     |
| ✓1 - NSIC (BUCHANAN)  | 1-R. CATLIN, E-256-GT                              | BROOKHAVEN NAT. LAB                    |
| 1 - ASLB (YORE/SAYRE/<br>WOODARD/"H" ST.                              | 1-CONSULTANT'S                                     | 1-AGMED (WALTER KOESTER<br>RM-C-427-GT |
| ✓16 - CYS ACRS <del>XXXXXX</del> SENT TO LIC. ASST.<br>8-23-73. DIGGS | NEWMARK/BLUME/AGBABIAN<br>1-GERALD ULRIKSON...ORNL | 1-RD..MULLER..F-309 GT                 |



NORTHERN STATES POWER COMPANY  
Minneapolis, Minnesota 55401

August 17, 1973

Mr. J. F. O'Leary, Director  
Directorate of Licensing  
United States Atomic Energy Commission  
Washington, D. C. 20545



Dear Mr. O'Leary:

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

Failure of Main Steam Line Drain Valve, MO-2374, to Close

A condition occurred at the Monticello Nuclear Generating Plant which we are reporting to your office in accordance with Section 6.7.B.1, Abnormal Occurrence Reports, of the Technical Specifications, of Provisional Operating License DPR-22.

On August 10, 1973, during a routine plant startup, the outboard main steam line drain valve, MO-2374, a primary containment isolation valve, could not be closed using the control room handswitch.

Investigation revealed that the valve motor closing contactor was properly energized but that its main contact was not closed. It was determined that the mechanical interlock with the corresponding opening contactor was preventing the closing contactor main contact from properly closing. The interlock is constructed such that it blocks the opening contactor armature when the closing contactor is picked up, or conversely, blocks the closing contactor armature when the opening contactor is picked up. The interlock was adjusted to allow proper operation of the closing contactor. The valve was then successfully operated.

Similar contactors for the other DC motor-operated valves were inspected to verify proper adjustment of the mechanical interlocks. One other contactor interlock was found out of adjustment although it was functioning properly. The remainder of the contactors inspected were found to be satisfactory. The outboard head spray isolation valve contactors were not inspected since this valve is held closed by a reactor pressure interlock and cannot be cycled during normal power operation. The contactors for this valve will be inspected at the first opportunity. Adjustment of the contactor interlocks will be incorporated into the breaker maintenance procedure.

This occurrence did not affect safe operation since the redundant inboard main steam line drain valve was fully operable.

One previous malfunction has occurred due to improper assembly of a mechanical interlock, however, no previous malfunctions due to improper adjustment have been experienced. It is felt that the corrective actions taken as a result of this occurrence are sufficient to insure reliable operation of the DC motor operated valves.

Yours very truly,

*L. O. Mayer m & v*

L O Mayer, PE  
Director of Nuclear Support Services

LOM/mmm

cc: B H Grier  
G Charnoff  
Minnesota Pollution Control Agency  
Attn: Ken Dzugan