

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 3677

FILE: 210

FROM: Northern States Power Company Minneapolis, Minnesota L. O. Mayer			DATE OF DOC 4-22-74	DATE REC'D 4-26-74	LTR X	MEMO	RPT	OTHER
TO: J. F. O'Leary			ORIG 1 signed	CC 39	OTHER	SENT AEC PDR XXXX SENT LOCAL PDR XXXX		
CLASS XXX	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-263		

DESCRIPTION:  
  
Ltr furn info re abnormal occurrence discovered 4-12-74 in which two indications were found in the stainless steel tee associated with the flow switch

ENCLOSURES:

**DO NOT REMOVE  
ACKNOWLEDGED**

PLANT NAME: MONTICELLO

FOR ACTION/INFORMATION 4-26-74 GMC

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KNIEL(L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD(E) W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

✓ REG FILE	✓ TECH REVIEW	DENTON	A/T IND
✓ AEC PDR	✓ HENDRIE	GRIMES	BRAITMAN
✓ OGC, ROOM P-506A	✓ SCHROEDER	GAMMILL	SALTZMAN
✓ MUNTZING/STAFF	✓ MACCARY	KASTNER	B. HURT
✓ CASE	✓ KNIGHT	BALLARD	PLANS
GIAMBUSSO	✓ PAWLICKI	SPANGLER	MCDONALD
BOYD	✓ SHAO		DUBE w/Input
MOORE (L)(BWR)	✓ STELLO	ENVIRO	INFO
DEYOUNG(L)(PWR)	✓ HOUSTON	MULLER	C. MILES
SKOVHOLT (L)	✓ NOVAK	DICKER	✓ B. KING (E/W-358)
✓ GOLLER(L)	✓ ROSS	KNIGHTON	✓ KLECKER
P. COLLINS	✓ IPPOLITO	YOUNGBLOOD	✓ EISENHUT
DENISE	✓ TEDESCO	REGAN	
✓ REG OPR	✓ LONG	PROJECT LDR	
✓ FILE & REGION(3)	✓ LAINAS		
✓ MORRIS	✓ BENAROYA	HARLESS	
✓ STEELE	✓ VOLIMER		

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR MINNEAPOLIS, MINN	(1) (2) (10) - NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓ 1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
✓ 1 - NSIC(BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB	1-CONSULTANT'S	1-AGMED(Ruth Gussman)
1 - P. R. DAVIS (AEROJET NUCLEAR)	NEWMARK/BLUME/AGBABIAN	RM-B-127, GT.
✓ 16 - CYS ACRS <del>HOLDING</del>	1-GERALD ULRICKSON...ORNL	1-RD..MULLER..F-309 GT
Sent to Lic Asst Diggs 4-26-74	1-B & M SWINEBROAD, Rm E-201 GT	

# NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

April 22, 1974

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

Dear Mr. O'Leary:

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

Cracked Tee in Standby Liquid Control System

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 Appendix A, Technical Specifications, of Provisional Operating License DPR-22.

On April 12, 1974, while performing a non-destructive examination (Dye Penetrant test) of a socket weld on a Standby Liquid Control PEECO flow switch (following removal of the flow switch actuator paddle) two indications were found in the stainless steel tee associated with the flow switch.

The depth of the indications was explored and it was determined that they were non-injurious (as defined in the Specification for Wrought Austenitic Stainless Steel Piping Fittings, SA-403, in the ASME Boiler and Pressure Vessel Code, Section II). The indications were removed during the exploration. It is postulated that the indications were created in the manufacturing process.

No other indications have been detected in Standby Liquid Control System piping in the past and, because of the non-injurious nature of the indications discovered on April 12, no further inspection is considered necessary.

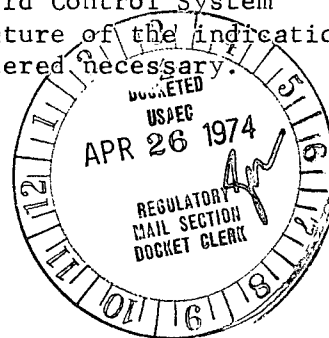
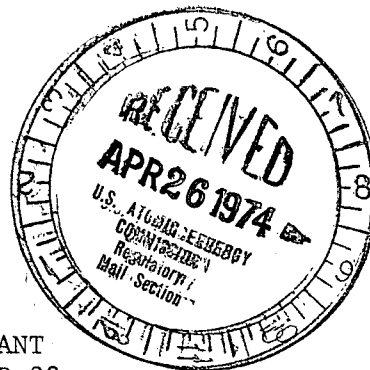
Very truly yours,

*L. O. Mayer*

L O Mayer, PE  
Director of Nuclear Support Services

LOM/lh

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



3677

REGULATORY DOCKET FILE COPY

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 3515

FILE: u/p

FROM: Northern States Power Company Minneapolis, Minnesota 55401 L. O. Mayer			DATE OF DOC  4-18-74	DATE REC'D  4-22-74	LTR  X	MEMO	RPT	OTHER
TO:  J. F. O'Leary			ORIG 1 signed	CC	OTHER	SENT AEC PDR <u>X</u> SENT LOCAL PDR <u>X</u>		
CLASS	UNCLASS  XXX	PROP INFO	INPUT	NO CYS REC'D  40		DOCKET NO:  50-263		

DESCRIPTION:  
Ltr reporting abnormal occurrence on 4-10-74,  
regarding a broken stem on RHR service water  
control valve, CV-1728.....

ENCLOSURES:

**DO NOT REMOVE  
ACKNOWLEDGED**

PLANT NAME: Monticello

FOR ACTION/INFORMATION 4-22-74 GC

BUTLER(L) W/ Copies	SCHWENCER(L) W/ Copies	✓ZIEMANN(L) W/ 7 Copies	REGAN(E) W/ Copies
CLARK(L) W/ Copies	STOLZ(L) W/ Copies	DICKER(E) W/ Copies	W/ Copies
PARR(L) W/ Copies	VASSALLO(L) W/ Copies	KNIGHTON(E) W/ Copies	W/ Copies
KNIEL(L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD(E) W/ Copies	W/ Copies

INTERNAL DISTRIBUTION

✓ <u>REG FILE</u>	<u>TECH REVIEW</u>	DENTON	<u>LIC ASST</u>	<u>A/T IND</u>
✓AEC PDR	✓HENDRIE	GRIMES		BRAITMAN
✓GC, ROOM P-506A	✓SCHROEDER	GAMMILL	✓DIGGS (L)	SALTZMAN
✓MUNTZING/STAFF	✓MACCARY	KASTNER	GEARIN (L)	B. HURT
✓CASE	✓KNIGHT	BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSO	✓PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	✓SHAO		MAIGRET (L)	DUBE w/Input
MOORE (L)(BWR)	✓STELLO	<u>ENVIRO</u>	REED (E)	<u>INFO</u>
DEYOUNG(L)(PWR)	✓HOUSTON	MULLER	SERVICE (L)	C. MILES
SKOVHOLT (L)	✓NOVAK	DICKER	SHEPPARD (L)	✓B. KING (E/W-358)
✓COLLER(L)	✓ROSS	KNIGHTON	SLATER (E)	✓KLECKER
P. COLLINS	✓IPPOLITO	YOUNGBLOOD	SMITH (L)	✓EISENHUT
DENISE	✓TEDESCO	REGAN	TEETS (L)	
✓REG OPR	✓LONG	PROJECT LDR	WADE (E)	
FILE & REGION(3)	✓LAINAS		WILLIAMS (E)	
✓MORRIS	✓BENAROYA	HARLESS	WILSON (L)	
✓STEELE	✓VOLLMER			

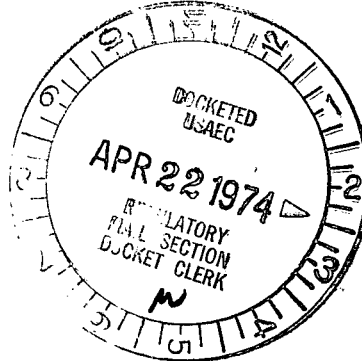
EXTERNAL DISTRIBUTION

✓1 - LOCAL PDR Minneapolis, Minnesota	(1)(2)(10)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
✓1 - NSIC(BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB	1-CONSULTANT'S	1-ACMED(Ruth Gussman)
1 - P. R. DAVIS (AEROJET NUCLEAR)	NEWMARK/BLUME/AGBABIAN	RM-B-127, GT.
✓16 - CYS ACRS <del>XXXXXXXX</del> SENT TO LIC ASST.	1-GERALD ULRIKSON...ORNL	1-RD..MULLER..F-309 GT
4-22-74 DIGGS	1-B & M SWINEBROAD, Rm E-201 GT	

April 18, 1974

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

Dear Mr. O'Leary:



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

Broken Stem on RHR Service Water Control Valve, CV-1728

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 Appendix A, Technical Specifications, of Provisional Operating License DPR-22.

On April 10, 1974, an inspection of the RHR Service Water Control Valve, CV-1728, revealed that the lower valve stem was broken. Further inspection revealed significant metal erosion below the lower port disc. (See attached figure) The nature of these failures and the design of the valve are such that the valve was still able to perform its function of controlling differential pressure between the RHR and RHR Service Water. The valve operator withdraws the stem to a given position and maintains that position through a position feedback device. The inner valve is designed to open when either normal flow or normal differential pressure forces are applied across the valve ports. Consequently, the inner valve will be forced open by hydraulic forces until it is restrained at the required position by the severed lower stem.

This is the first failure of this type which has been experienced. Metallurgical and mechanical investigations to determine the cause of the stem fracture and the erosion are continuing. The control valve in the redundant system will be inspected during the current outage. Following the completion of the metallurgical and mechanical tests and the inspection of the redundant system, a report on the final resolution of the problem will be submitted.

Yours very truly,

L O Mayer, PE  
Director of Nuclear Support Services

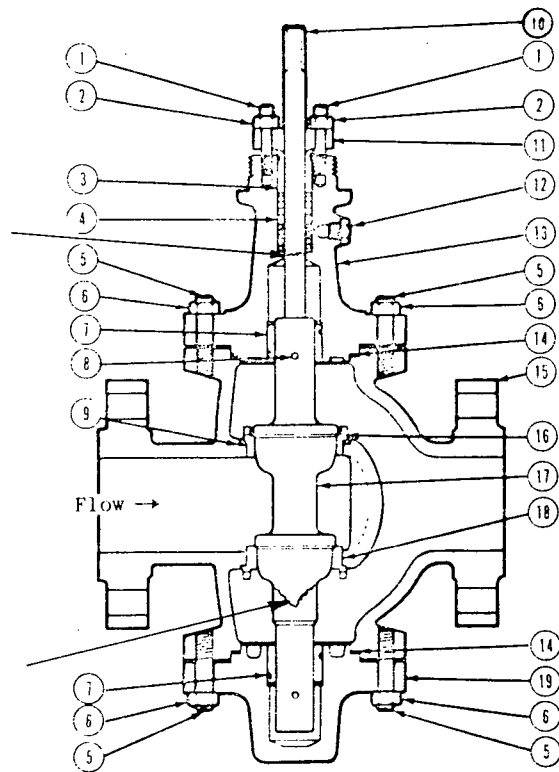
LOM/kn

3515

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

Fracture of  
Lower Stem

Eroded Area



ITEM	DESCRIPTION
1	Stud, Hold Down
2	Nut, Hold Down
3	Packing Follower
4	Packing Assembly
5	Stud, Body
6	Nut, Body
7	Guide Bushing
9	Shim, Laminated
10	Lower Stem (Regular)
11	Hold Down Plate
12	Pipe Plug
13	Top Closure (Regular)
13a	Top Closure (Finned)
13b	Top Closure (Extended)
14	Body Gasket
15	Valve Body
16	Seat Ring
17	Inner Valve
18	Seat Ring
19	Bottom Closure
20	Grease Ring
21	Lubricator Assembly
22	Isolating Valve Assembly



□ Indicates Recommended Spare Parts

Figure 1. Typical Double Port Valve