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(TEMPORARY FORM)**

CONTROL NO: **2230**

FILE: **INCIDENT REPORT**

FROM: Northern States Power Minneapolis, Minn 55401 L O Mayer			DATE OF DOC 1-30-75	DATE REC'D 2-26-75	LTR XXXX	TWX	RPT	OTHER
TO: Mr Giambusso			ORIG one signed	CC	OTHER	SENT AEC PDR XX SENT LOCAL PDR XX		
CLASS	UNCLASS XXXXXXXXXXXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: 50-263		

DESCRIPTION:

Ltr trans the following:

**UNKNOWNED
DO NOT REMOVE**

ENCLOSURES:

Licensee Event Report to the NRC on Crack
Indications in Recirculation Bypass Piping
.....

PLANT NAME: Monticello

FOR ACTION/INFORMATION 2-27-75 ehf

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EXTERNAL DISTRIBUTION

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1-TIC (ABERNATHY)	1-W. PENNINGTON, RM E-201 G.T.	1-BROOKHAVEN NAT LAB
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1-NEWTON ANDERSON		1-J. RUNKLES, RM E-201 G.T.
5-ACRS SENT TO LIC. ASST. 01955		

AD

LB

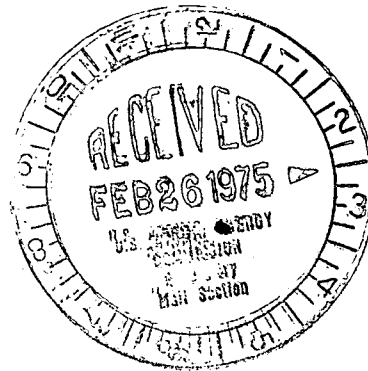
NSP

N O R T H E R N S T A T E S P O W E R C O M P A N Y

MINNEAPOLIS, MINNESOTA 55401

January 30, 1975

Mr A Giambusso, Director
Division of Reactor Licensing
U S Nuclear Regulatory Commission
Washington, DC 20555



Dear Mr Giambusso:

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

Licensee Event Report to the NRC
Crack Indications in Recirculation Bypass Piping

Attached are the Licensee Event Report and a supplementary report for this occurrence.

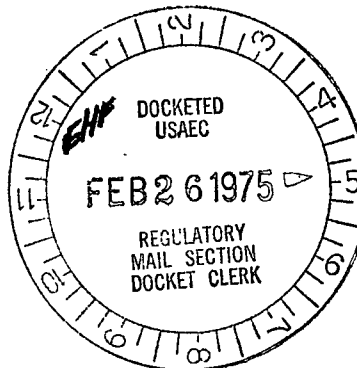
Yours very truly,

A handwritten signature in cursive script, appearing to read "L. O. Mayer".

L O Mayer, PE
Manager of Nuclear Support Services

LOM/DMM/ak

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



SUPPLEMENT TO LICENSEE EVENT REPORT TO THE NRC

Crack Indications in Recirculation Bypass Piping

Supplemental Information:

1. Report Number: AO 263/75-03
- 2a. Report Date: January 30, 1975
3. Facility: Monticello Nuclear Generating Plant
Monticello, Minnesota 55362
4. Identification of Occurrence:

This report concerns the detection of crack-like indications in the Reactor Recirculation System 4-inch diameter bypass lines during the inservice inspection.

5. Conditions Prior to Occurrence:

Refueling Shutdown - A refueling outage was in progress at the time of the occurrence.

6. Description of Occurrence:

On January 20, 1975, during the inservice inspection of the reactor coolant system, linear indications were detected by ultrasonic examination in two welds in loop A and one weld in loop B of the reactor recirculation system 4-inch diameter bypass lines. Radiographic examination of these three welds definitely verified the presence of a linear indication in one of these welds. The radiograph showed the indication to be located in the weld heat-affected zone.

After a thorough review and study of all of the ultrasonic recordings and comparing inspection results obtained in November, 1974, with the present results, a fourth weld became a suspect. This weld was located in loop A. Although the amplitude of the ultrasonic signal for this weld was relatively low, the signal pattern was similar to the three welds that were rejected; therefore, this weld was also rejected (see attached Figure).

7. Designation of Apparent Cause of Occurrence:

The cause is unknown. It appears to be a generic problem similar to problems experienced at other BWR facilities. Identical inspections performed in November, 1974, revealed no unacceptable indications in these same welds. Indications which were detected in the November inspection were of a magnitude and nature such that they were indiscernible from the weld root I.D.

LICENSEE EVENT REPORT

CONTROL BLOCK:

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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	0	4	1	1	1	1	0	1	
7	8	9				14	15											25	26				30	31	32

CON'T		CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER						EVENT DATE				REPORT DATE									
01		P	O	T	L	0	5	0	-	0	2	6	3	0	1	2	0	7	5	0	1	3	0	7	5
7	8	57	58	59	60	61							68	69					74	75					80

EVENT DESCRIPTION

02	During inservice inspection linear indications were detected by ultrasonic	60
03	examination (two welds Loop A, one weld Loop B) of reactor recirculation 4-inch	80
04	bypass lines. Radiographs of the 3 welds verified one indication (in heat affected	80
05	zone). No previous occurrence. Pipe to be replaced prior to startup. (AO 75-03)	80
06		80

SYSTEM CODE		CAUSE CODE		COMPONENT CODE					COMPONENT SUPPLIER	COMPONENT MANUFACTURER				VIOLATION		
0	7	C	B	C	P	I	P	E	X	X	N	G	2	5	5	N
7	6	9	10	11	12					17	43	44			47	46

CAUSE DESCRIPTION

08	Cause unknown. Laboratory analysis of removed piping to be performed. Piping to	50
09	be reinspected during fall 1975 refueling outage.	60
10		80

FACILITY STATUS		% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
11	H	0	0	0	NA		D	NA		
7	8	9	10	11	12	13	44	45	46	50

FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
12	Z	Z		NA		NA	
7	8	9	10	11	44	45	80

PERSONNEL EXPOSURES

NUMBER				TYPE	DESCRIPTION
1	3	0	0	0	Z NA

PERSONNEL INJURIES

NUMBER				DESCRIPTION	
1	4	0	0	0	NA

OFFSITE CONSEQUENCES

[illegible]

LOSS OR DAMAGE TO FACILITY

TYPE			DESCRIPTION
16	Z		NA

PUBLICITY

17 | Press Release - Monticello pipe cracks, 1-22-75 | 80

ADDITIONAL FACTORS

18 After comparison of ultrasonic records from November inspection, a fourth weld was

19 conservatively rejected and removed.

NAME: Phil Krumpas PHONE: 612-330-6737

8. Analysis of Occurrence:

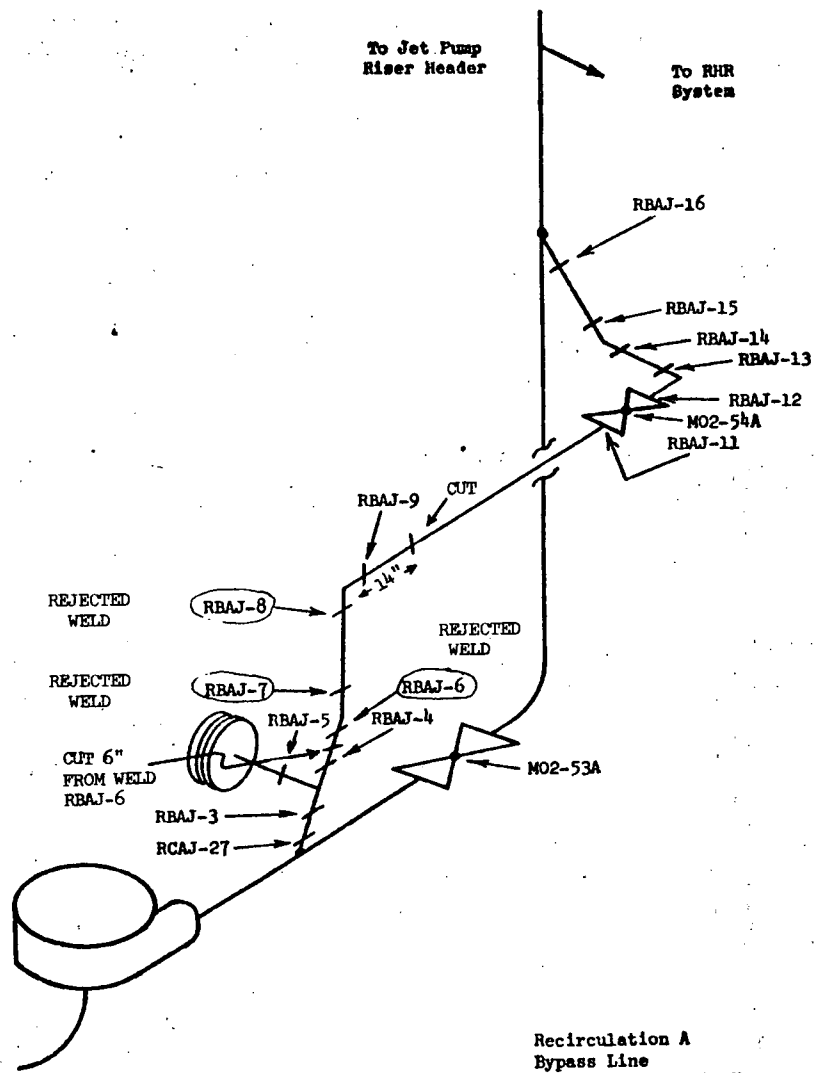
This occurrence had no effect on the public health and safety. Assuming these linear indications are cracks, and assuming they would have propagated through the pipe wall, the resultant water leaks would have been detected by the drywell sump monitoring system. In the unlikely event of a gross failure of a four-inch bypass loop, the resultant break would be well within the capability of the ECCS System.

9. Corrective Action:

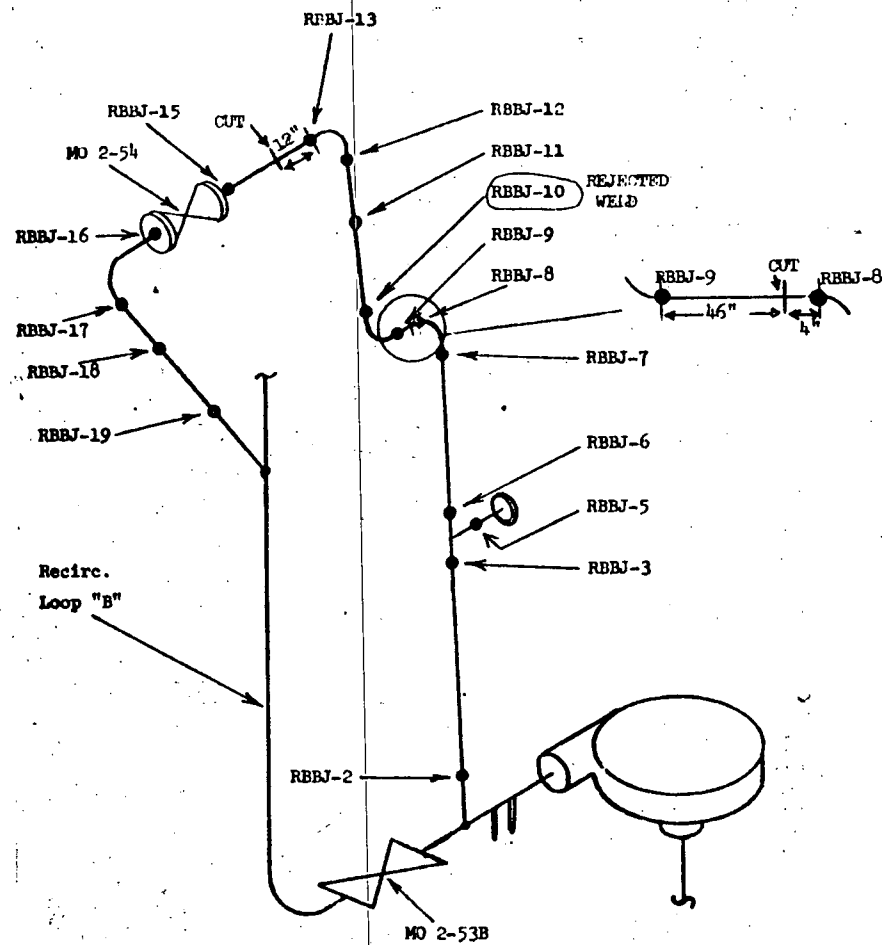
Segments of both pipe loops which contain the four rejected welds are being removed and replaced. This piping (schedule 80, type 304 stainless steel) will be sent to a laboratory for metallurgical examination.

10. Failure Date:

Not applicable.



Recirculation A
Bypass Line
Modified Isometric U
Ref. FSK 382-1



Recirculation B
Isometric "N"
Ref. Dwg. FSK-383-2
Ref. G. E. ISO. 13A