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(TEMPORARY FORM)

CONTROL NO: 1145

FILE: INCIDENT REPORT

FROM: Northern States Power Co. Minneapolis, Minn. 55401 L.O. Meyer		DATE OF DOC 1-30-75	DATE REC'D 2-1-75	LTR XXX	TWX	RPT	OTHER
TO: Mr. A. Giambusso		ORIG 1 signed	CC 39	OTHER	SENT AEC PDR <u>XX</u>		SENT LOCAL PDR <u>XX</u>
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 40	DOCKET NO: 50-263		

DESCRIPTION: Ltr trans the following:

ENCLOSURES: Licensee Event on 1-20-75 re crack indications in recirculation bypass piping.....(AO-3)

ACKNOWLEDGED
Do Not Remove

PLANT NAME: Monticello Plant

FOR ACTION/INFORMATION DHL 2-3-75

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1-J. RUNKLES, RM E-201
G.T. |
|---|--|--|

NSP

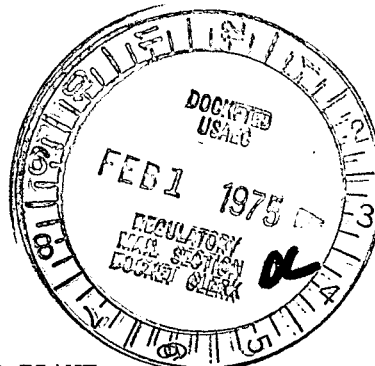
Regulatory Docket File

NORTHERN STATES POWER COMPANY

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

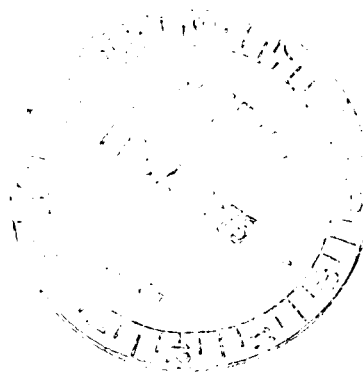
Attached are the Licensee Event Report and a supplementary report for this occurrence.

Yours very truly,

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



1145

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

Regulatory Docket File

CONTROL BLOCK: _____

[PLEASE PRINT ALL REQUIRED INFORMATION]

Classified w/LLI Date: 1-30-75

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	81						89			74			75				80			

EVENT DESCRIPTION

02 | During inservice inspection linear indications were detected by ultrasonic
7 8 9 | _____ 80

03 | examination (two welds Loop A, one weld Loop B) of reactor recirculation 4-inch
7 8 9 | _____ 80

04 | bypass lines. Radiographs of the 3 welds verified one indication (in heat affected
7 8 9 | _____ 80

05 | zone). No previous occurrence. Pipe to be replaced prior to startup. (AO 75-03)
7 8 9 | _____ 80

06 | _____
7 8 9 | _____ 80

SYSTEM CODE		CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER			VIOLATION			
07	C	B	C	P	I	P	E	X	X	N	G	2	5	5	N
7	8	9	10	11				12	43	44			47	48	

CAUSE DESCRIPTION

08 | Cause unknown. Laboratory analysis of removed piping to be performed. Piping to
7 8 9 | _____ 80

09 | be reinspected during fall 1975 refueling outage.
7 8 9 | _____ 80

10 | _____
7 8 9 | _____ 80

FACILITY STATUS	% POWER	OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION		
11	H	0	0	0	NA	D	NA	
7	8	9	10 12 13		44	45	46	80

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

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 | Press Release - Monticello pipe cracks, 1-22-75
7 8 9 | _____ 80

ADDITIONAL FACTORS

18 | After comparison of ultrasonic records from November inspection, a fourth weld was
7 8 9 | _____ 80

19 | conservatively rejected and removed.
7 8 9 | _____ 80

NAME: Phil Krumpas PHONE: 612-330-6737

8. Analysis of Occurrence:

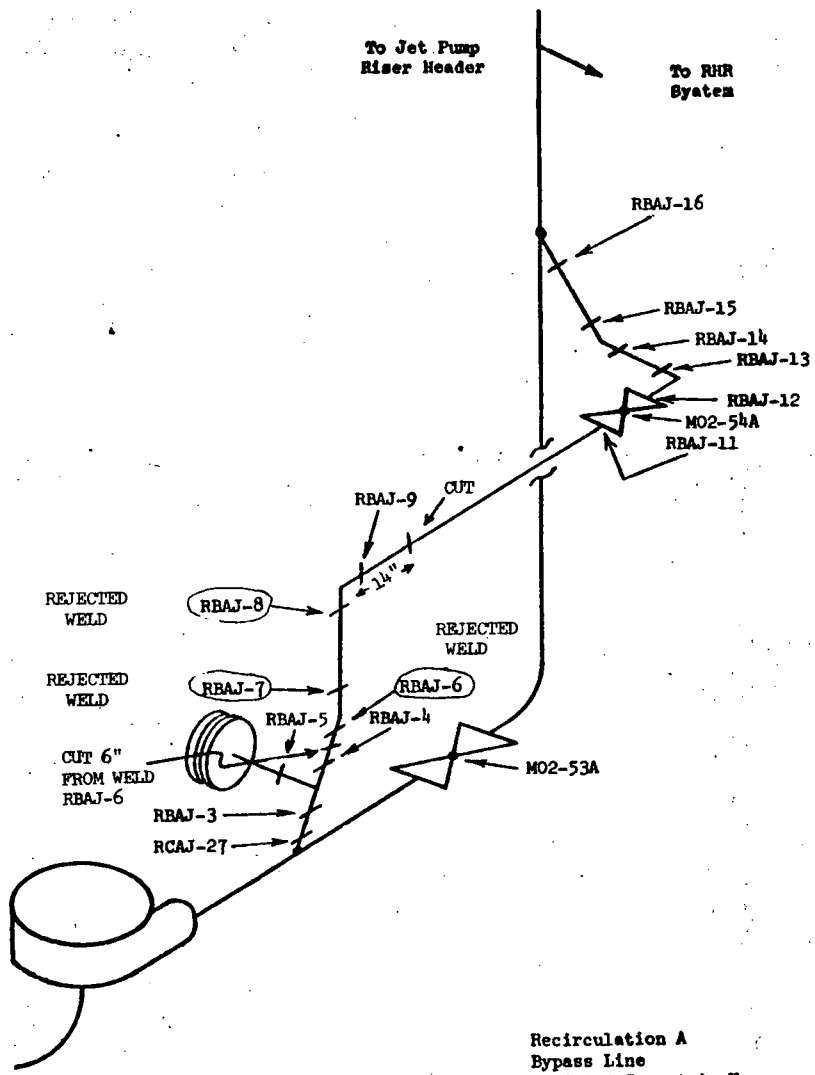
This occurrence had no effect on the public health and safety. Assuming these linear indications are cracks, and assuming they would have propagated through the pipe wall, the resultant water leaks would have been detected by the drywell sump monitoring system. In the unlikely event of a gross failure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

9. Corrective Action:

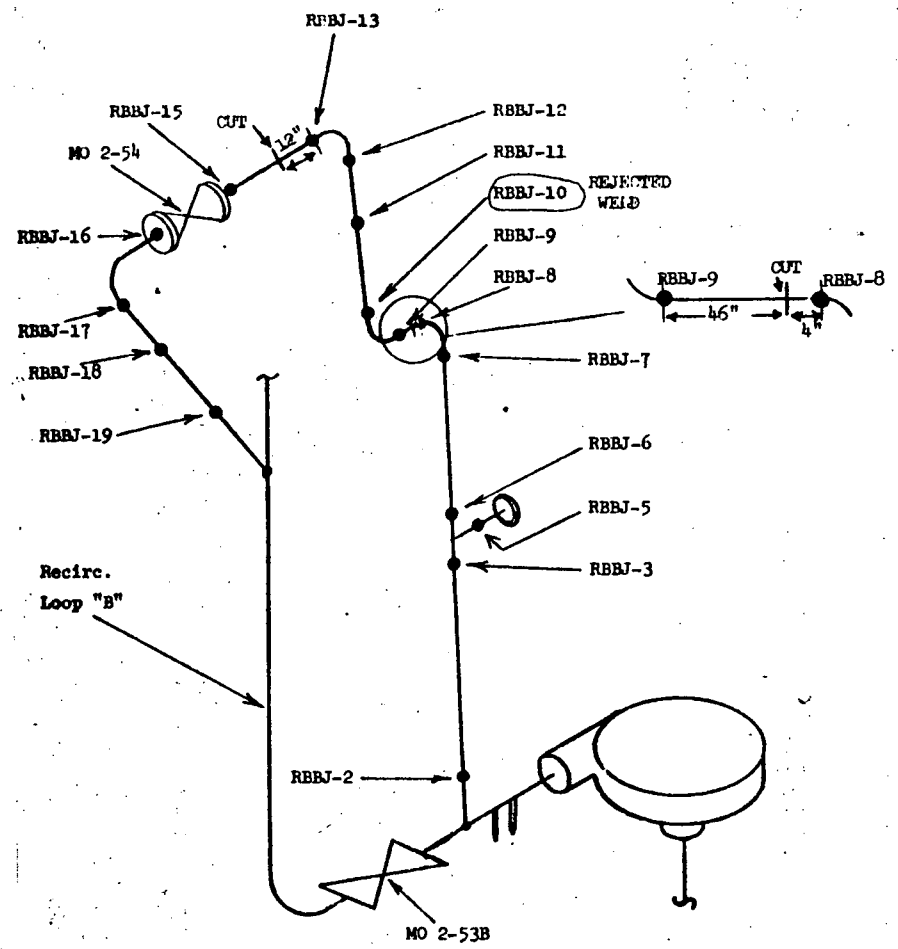
Segments of both pipe loops which contain the four rejected welds are being removed and replaced. This piping (schedule 80, type 304 stainless steel) will be sent to a laboratory for metallurgical examination.

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