

REPORT OF ABNORMAL OCCURRENCE AND/OR INCIDENT

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL (TEMPORARY FORM)

CONTROL NO: 10519

FILE: INCIDENT REPORT FILE

FROM: Indiana & Michigan Power Bridgman, Michigan R.W. Jurgensen		DATE OF DOC 9-29-75	DATE REC'D 10-3-75	LTR XXX	TWX	RPT	OTHER
TO: Mr. J.G. Keppler		ORIG None	CC 30	OTHER	SENT AEC PDR XXX		
					SENT LOCAL PDR XXX		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 30	DOCKET NO: 50-315		

DESCRIPTION:

Letter trans the following.....

ENCLOSURES:

Abnormal Occurrence # 75-61, on 8-29-75,
Concerning Flow Path that was made inoperable
four times to permit work in the boron injection
tank(BIT) recirculation line.....

(30 Copies Enclosure Received)

PLANT NAME: Cook # 1

FOR ACTION/INFORMATION

SAB 10-7-75

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
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DO NOT REMOVE

ACKNOWLEDGED

INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC ASST</u>	<u>A/T IND</u>
NRC PDR	SCHROEDER	**GRIMES	R. DIGGS (L)	BRAITMAN
OGC, ROOM P-506A	MACCARY	GAMMILL	H. GEARIN (L)	SALTZMAN
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CASE	PAWLICKI	BALLARD	P. KREUTZER (E)	
GIAMBUSSO	SHAO	SPANGLER	J. LEE (L)	<u>PLANS</u>
BOYD	**STELLO		M. RUSHBROOK (L)	MCDONALD
MOORE (L)	**HOUSTON	<u>ENVIRO</u>	S. REED (E)	CHAPMAN
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FILE & REGION (2)	BENAROYA		V. WILSON (L)	*WIGGINTON
MIPC/PE (3)	VOLLMER	HARLESS	R. INGRAM (L)	F. WILLIAMS
STEELE			M. DUNCAN (E)	HANAUER

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1 - LOCAL PDR St. Joseph, Michigan	1 - NATIONAL LABS	1 - PDR-SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - W. PENNINGTON, Rm E-201 GT	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - CONSULTANTS	1 - G. ULRIKSON, ORNL
1 - ASLB	NEWMARK/BLUME/AGBABIAN	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
1 - Newton Anderson		1 - J. D. RUNKLES, Rm E-201 GT
5 - ACRS SENT TO LIC ASST M. Service		
** SEND ONLY TEN DAY REPORTS		



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INDIANA & MICHIGAN POWER COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106

September 29, 1975

Mr. J.G. Keppler, Regional Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137



Operating License DPR-58
Docket No. 50-315

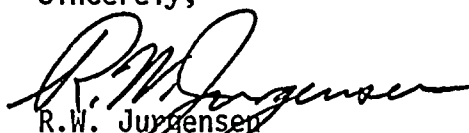
Dear Mr. Keppler:

Pursuant to the requirements of Appendix A Technical Specifications and the United States Nuclear Regulatory Commission Regulatory Guide 1.16, Revision 3, Section 2.b, the following Abnormal Occurrence Report is submitted:

AO 50-315/75-61.

The recirculation flow path is under continued study to resolve the flow path requirements. In the future we will maintain a record of each time this event occurs until a final resolution of the recirculation flow path is obtained. We will then submit this record as a supplement to this abnormal occurrence report.

Sincerely,


R.W. Jurgensen
Plant Manager

/bab

cc: R.S. Hunter
J.E. Dolan
G.E. Lien
R.J. Vollen BPI
R. Kilburn
R.C. Callen MPSC
K.R. Baker RO: III
P.W. Steketee, Esquire
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CONTROL BLOCK:

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER						LICENSE TYPE				EVENT TYPE										
01	M	I	D	C	C	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	M	I			1	1	0	5	0	-	0	3	1	5	0	8	2	9	7	5	0	9	2	2	7	5
7	8		57	58	59	60	61							68	69					74	75				80	

EVENT DESCRIPTION

02	See Attachment																							80
03																								80
04																								80
05																								80
06																								80
(A0 50-315/75-61)																								80

SYSTEM CODE		CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER				VIOLATION	
07	Z	Z	B	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Y
7	8	9	10	11	12				17	43	44			47	48

CAUSE DESCRIPTION

08	See Attachment																							80
09																								80
10																								80

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION							
11	E	0	8	1	NA	a	Deliberate Isolation								
7	8	9	10	11	12	13	44	45	46						80
FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY				LOCATION OF RELEASE							
12	7	7	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

PERSONNEL INJURIES

NUMBER		DESCRIPTION		
14	0	0	0	NA
7	8	9	11	12

PROBABLE CONSEQUENCES

15	NA																							80
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LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION	
16	Z	NA	
7	8	9	10

PUBLICITY

17	NA																							80
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ADDITIONAL FACTORS

18	See Attachment																							80
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19																								80
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NAME:

Blanchard

PHONE: (616) 465-5901

EVENT DESCRIPTION

Technical Specification 3.1.2.2(a) requires a flow path from the boric acid tanks via the boric acid transfer pumps and one charging pump to the Reactor Coolant System. This flow path was made inoperable four times to permit work in the boron injection tank (BIT) recirculation line. The flow path was made inoperable only by the need for isolating the boric acid transfer pump.

The date and length of time of each occurrence are as follows:

August 29, 1975 - 7 hours and 40 minutes
September 15, 1975 - 8 hours and 43 minutes
September 15, 1975 - 5 hours and 40 minutes
September 24, 1975 - 3 hours and 33 minutes

During each occurrence the reactor was in operational mode 1 at 81% power. Compliance with Technical Specification 3.1.2.2 Action Item (a) and operability of the flow path from the refueling water storage tank via one charging pump to the Reactor Coolant System was assured each time. Also the emergency boration flow path from the charging pumps via the boron injection tank to the Reactor Coolant System was operable each time. Therefore, at no time was the health and safety of the public jeopardized by these events.

CAUSE DESCRIPTION

Considerable difficulty has been experienced with deteriorating boron injection tank recirculation line flow rate. The events listed above were due to efforts to restore this flow rate to its optimum value of 20-21 gpm.

On August 29, 1975 the BIT recirculation line was isolated and its root valve, CS-424N, disassembled for inspection. A slush like boric acid solution was found and removed during disassembly of the valve. The system was returned to service and a considerably higher flow rate was experienced.

On September 15, 1975 the flow rate had again decreased to lower than the minimum acceptable value and the BIT recirculation line was isolated and valve CS-424N opened for inspection. No pluggage or slush was found. The valve bonnet was replaced with a plate with a connection for a pressure gage to permit monitoring of the pressure drop in the line from the pump discharge. Testing indicated that pluggage did exist in the line upstream of valve CS-424N. The valve was again disassembled and the line flushed with demineralized water. Valve CS-424N was reassembled with the pressure gage connection. When the boric acid system was returned to service the BIT recirculation flow rate was 20 gpm indicating that the pluggage had been removed.

On September 16, 1975 the boric acid system again had to be removed from service to repair a leak that had developed at the temporary pressure gage connection on valve CS-424N.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

On September 24, 1975 the boric acid system was shut down to permit removal of the temporary pressure gage connection and restoration of valve CS-424N.

ADDITIONAL FACTORS

Considerable efforts have been made to determine areas of heat loss in the BIT recirculation line. The heat tracing in the line upstream of valve CS-424N has been replaced and additional heat tracing installed. Since then the recirculation flow rates have been 15 to 20 gpm.

