

50-315

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

TO: Mr. J. G. Keppler

FROM:
Indiana & Michigan Power Co.
Bridgman, Michigan 49106
D. V. Shaller

FILE NUMBER

INCIDENT REPORT

DATE OF DOCUMENT

10/04/77

DATE RECEIVED

10/20/77

☒ LETTER
☒ ORIGINAL
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PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

1 SIGNED

DESCRIPTION

PLANT NAME: COOK UNIT 1
jcm 10/21/77

1p

ENCLOSURE

Licensee Event Report (R0 50-315/77-31) on 09/08/77 concerning the North B.A. storage tank and the boron injection tank boron concentration was below tech spec limit...

Licensee Event Report (R0 50-315/77-32) on 09/13/77 concerning Rod B-10 position indication was found to be in excess of the 2 12 step limit as outlined in tech specs paragraph 3.1.3.2....

3p

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

FOR ACTION/INFORMATION

BRANCH CHIEF: (4)
W/ 3 CYS FOR ACTION
LTC ASST.

DAVIS

INTERNAL DISTRIBUTION

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T & E (2)
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BUTLER
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EISENHIT
BAER
SHAO
VOLLMER/BUNCH
KREGER/J. COLLINS
ROSA

EXTERNAL DISTRIBUTION

LPDR: ST Joseph Mich
TIC:
NSIC:
ACRS (16) SENT AS CAT. B

CONTROL NUMBER

772940111

A0 4

60

D. Lankford
REGULATORY DOCKET FILE COPY



INDIANA & MICHIGAN POWER COMPANY

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



October 4, 1977

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 4, Section 2.b, the following reports are submitted:

RO 50-315/77-31
RO 50-315/77-32.

Sincerely,

D.V. Shaller
for D.V. Shaller

D.V. Shaller
Plant Manager

/bab

cc: J.E. Dolan
R.W. Jurgensen
G.E. Lien
R. Kilburn
R.J. Vollen BPI
K.R. Baker RO:III
R.C. Callen MPSC
P.W. Stoketee, Esq.
G. Charnoff, Esq.
R. Walsh, Esq.
J.M. Hennigan
G. Olson
PNSRC
J.F. Stietzel
Dir., IE (30 copies)
Dir., MIPC (3 copies)

OCT 7 1977

772940111

LICENSEE EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME														LICENSE NUMBER											LICENSE TYPE				EVENT TYPE	
01	M	I	D	C	C	I	0	0	-	0	0	0	0	0	-	0	0	4	1	1	1	1	0	3						
7	8	9				14	15											25	26			30	31	32						
01		CONT		CATEGORY		REPORT TYPE		REPORT SOURCE		DOCKET NUMBER					EVENT DATE					REPORT DATE										
01						L	L	0	5	0	-	0	3	1	5	0	9	0	8	7	7	1	0	0	4	7	7			
7	8			57	58	59	60	61							68	69			74			75					80			

EVENT DESCRIPTION

02	DURING NORMAL OPERATION THE NORTH B.A. STORAGE TANK AND THE BORON INJECTION TANK																								80
03	BORON CONCENTRATION WAS SLIGHTLY BELOW THE TECH. SPEC. (3.5.4.1.b) MINIMUM OF																								80
04	20,000 PPM FOR A PERIOD OF 5 HOURS 45 MINUTES AND 4 HOURS 30 MINUTES RESPECTIVELY																								80
05	4 HOURS AFTER THE B.I.T. WAS DECLARED INOPERABLE A REDUCTION IN POWER LEVEL																								80
06	WAS STARTED TO COMPLY WITH THE ACTION REQUIREMENT TO GO TO HOT STANDBY.																								80
07	AFTER THE CONCENTRATION INCREASED ABOVE 20,000 PPM POWER WAS RETURNED TO 100%.																								80
08																									80
09																									80
10	RO-50-315/77-31																								80

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

CAUSE DESCRIPTION

08	INVESTIGATION FAILED TO REVEAL THE CAUSE																								80
09																									80
10																									80

FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION								
11	E	1	0	0	NA	B	PRODUCTION SUPERVISOR LOG REVIEW									
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	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																								80
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LOSS OR DAMAGE TO FACILITY

TYPE		DESCRIPTION														
16	Z	NA														
7	8	9	10													80

PUBLICITY

17	NA																								80
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ADDITIONAL FACTORS

18	NA																								80
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19																									80
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NAME: H. M. Chadwell

PHONE: 616-465-5901 (316)

2-10-11

60-20-31211-31

SEE SUPPLEMENT

0 6 518 21 1

LICENSEE EVENT REPORT

CONTROL BLOCK:

1	2	3	4	5	6
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(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME						LICENSE NUMBER						LICENSE TYPE				EVENT TYPE						
01	M	I	D	C	1	0	0	-	0	0	0	0	-	0	0	4	1	1	1	1	0	3
7	8	9			14	15					25					26				30	31	32

CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER				EVENT DATE				REPORT DATE											
01	CONT	L	L	0	5	0	-	0	3	1	5	0	9	1	3	7	7	1	0	0	4	7	7
7	8	57	58	59	60	61				68	69				74	75							80

EVENT DESCRIPTION

02	ON 9/13/77 ROD B-10 POSITION INDICATION WAS FOUND TO BE IN EXCESS OF THE 12 STEP																					80
03	LIMIT AS OUTLINED IN TECHNICAL SPECIFICATIONS PARAGRAPH 3.1.3.2. AT THIS TIME, BANK																					80
04	POSITION INDICATED 220 STEPS AND ROD B-10 INDICATED 206 STEPS. UPON IDENTIFICATION																					80
05	OF THE PROBLEM, NUCLEAR ENGINEERS VERIFIED ROD B-10'S ACTUAL POSITION OF 220 STEPS																					80
06	THROUGH THE INCORE FLUX DETECTORS. THIS IS THE (See Supplement) (RO-50-315/77-32)																					80

SYSTEM CODE		CAUSE CODE	COMPONENT CODE				PRIME COMPONENT SUPPLIER	COMPONENT MANUFACTURER			VIOLATION			
07	I	E	I	N	S	T	R	U	N	W	1	2	9	N
7	8	9	10	11	12			17	43	44			47	48

CAUSE DESCRIPTION

08	TECHNICIAN INVESTIGATION TRACED THE CAUSE TO THE SIGNAL CONDITIONING MODULE (MODULE																					80
09	#E2-786) WHICH INDICATED LOW VOLTAGE CAUSING ROD B-10 INDICATION TO READ LOW.																					80
10	FURTHER INVESTIGATION REVEALED THE THE OPERATIONAL AMPLIFIER (See supplement)																					80

FACILITY STATUS		% POWER	OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION					
11	E	0	6	0	NA	B	NA					
7	8	9	10	12	13	44	45	46				

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				

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

OFFSITE CONSEQUENCES

15	NA	
7	8	9

LOSS OR DAMAGE TO FACILITY

TYPE	DESCRIPTION		
16	Z	NA	
7	8	9	10

PUBLICITY

17	NA	
7	8	9

ADDITIONAL FACTORS

18	NA	
7	8	9

19	NA	
7	8	9

NAME: T.P.BEILMAN

PHONE: (616) 465-5901 (368)

SUPPLEMENT TO REPORTABLE OCCURRENCE RO-050-315/77- 32

SUPPLEMENT TO EVENT DESCRIPTION

SECOND SUCH OCCURRENCE FOR THIS PARTICULAR INDICATOR.

SUPPLEMENT TO CAUSE DESCRIPTION

(MODEL #71023) CONTAINED WITHIN THE ABOVE MODULE REQUIRED REPLACEMENT.

THE OPERATIONAL AMPLIFIER WAS REPLACED AND OUTPUTS WERE ADJUSTED TO

THE REQUIRED VALUES. INDICATION WAS MONITORED FOR TWO WEEKS TO

VERIFY PROPER OPERATION. NO FURTHER PROBLEMS HAVE BEEN ENCOUNTERED.

