

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
DONALD C. COOK UNIT 1

DOCKET NUMBER (2)

0 5 0 0 0 3 1 5

PAGE (3)

1 OF 2

TITLE (4)

PROCEDURAL ERROR WITH EMERGENCY CORE COOLING SURVEILLANCE PROCEDURE

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)								
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)						
0	4	0	1	8	4	8	4	0	0	2	0	5	0	0	0		
											0	5	0	0	0		

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)											
POWER LEVEL (10) 0 15 8	20.402(b)			20.406(e)			50.73(a)(2)(iv)			73.71(b)		
	20.406(a)(1)(i)			50.36(a)(1)			50.73(a)(2)(v)			73.71(c)		
	20.406(a)(1)(ii)			50.36(a)(2)			50.73(a)(2)(vi)			OTHER (Specify in Abstract below and in Text, NRC Form 365A)		
	20.406(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(vii)(A)					
	20.406(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)					
	20.406(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(ix)					

LICENSEE CONTACT FOR THIS LER (12)

NAME

K. R. BAKER, OPERATIONS SUPERINTENDENT

TELEPHONE NUMBER

AREA CODE

611 6 416 5 1-15 9 0 11

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS

SUPPLEMENTAL REPORT EXPECTED (14)

EXPECTED SUBMISSION DATE (15)

MONTH DAY YEAR

YES (If yes, complete EXPECTED SUBMISSION DATE)

X NO

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

DURING POWER OPERATION WITH REACTOR POWER AT 58%, A PROCEDURAL ERROR WITH THE EMERGENCY CORE COOLING SURVEILLANCE PROCEDURE WAS DISCOVERED. THE QUARTERLY PORTION OF THE PROCEDURE REQUIRED THE CLOSING OF ONE TRAIN'S RESIDUAL HEAT REMOVAL HEAT EXCHANGER OUTLET VALVE WHILE THE MONTHLY PORTION OF THE PROCEDURE HAD ALREADY CLOSED THE CORRESPONDING VALVE ON THE OPPOSITE TRAIN. THIS WOULD HAVE RENDERED BOTH TRAINS INOPERABLE. THIS PROCEDURAL ERROR WAS RECOGNIZED PRIOR TO RENDERING BOTH TRAINS INOPERABLE AND AT NO TIME WERE BOTH VALVES CLOSED.

THE CONTRIBUTING FACTOR TO THIS ERROR WAS THAT THE MODIFICATION TO THE QUARTERLY STEPS WAS DONE WITHOUT CONSIDERATION OF THE ABNORMAL SYSTEM CONDITIONS CAUSED BY THE MONTHLY STEPS OF THE PROCEDURE. A PROCEDURAL CHANGE HAS BEEN WRITTEN TO CORRECT THE ERROR. THE PERSONNEL INVOLVED HAVE BEEN MADE AWARE OF THE ERROR AND CAUTIONED ABOUT ASSUMING THE INITIAL CONDITIONS OF EQUIPMENT UNDER TEST.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
DONALD C. COOK UNIT 1	0 5 0 0 0 3 1 5	8 4	- 0 0 2	- 0 0 0 2	OF 0	2

TEXT (If more space is required, use additional NRC Form 368A's) (17)

DURING THE INITIAL USE OF THE QUARTERLY SECTION OF REVISION 11 OF 1-OHP 4030.STP.005, ECCS OPERABILITY TEST, AN ERROR THAT WOULD HAVE RENDERED BOTH RHR TRAINS INOPERABLE WAS DISCOVERED BY THE UNIT SUPERVISOR. A QUARTERLY STEP IN THE PROCEDURE CALLED FOR THE CLOSING OF 1-IRV-320, WEST RHR HX OUTLET VALVE, WHILE A MONTHLY STEP HAD EARLIER CLOSED 1-IRV-310, EAST RHR HX OUTLET VALVE. WITH BOTH VALVES CLOSED, BOTH RHR TRAINS WOULD BE INOPERABLE. THE PROCEDURE WAS STOPPED AND AT NO TIME WERE BOTH TRAINS INOPERABLE.

THE ERROR IN THE PROCEDURE WAS ORIGINALLY INTRODUCED INTO REVISION 10 BY PROCEDURE CHANGE SHEET (PCS) NUMBER 11 DATED JANUARY 18, 1984. THE REASON THE PCS WAS WRITTEN WAS TO ANSWER CONDITION REPORT 01-01-84-063 DEALING WITH THE INABILITY OF THE RHR PUMP DISCHARGE CHECK VALVE TO PASS THE QUARTERLY ISI VALVE TEST. THE PCS CHANGED THE TEST METHOD USED TO SATISFY THE ISI TEST. THE ORIGINAL METHOD USED THE HEAD OF WATER CONTAINED IN THE HEAT EXCHANGER AND DISCHARGE PIPING TO PROVIDE THE BACK PRESSURE TO SEAT THE CHECK VALVE. THIS WAS CHANGED TO USE THE DISCHARGE PPESSURE FROM THE OPPOSITE TRAINS RHR PUMP. THE PCS WAS TRIAL RUN ON JANUARY 17 WITH NO PROBLEM ENCOUNTERED, BUT AT THE SAME TIME, THE QUARTERLY STEPS WERE PERFORMED WITHOUT PERFORMING THE MONTHLY STEP, THEREFORE, THE PROBLEM WITH BOTH VALVES BEING CLOSED WAS NOT UNCOVERED. THE PCS-11 WAS INCORPORATED INTO REVISION 11 OF THE PROCEDURE ON MARCH 20, 1984. THE QUARTERLY STEPS HAD NOT BEEN PERFORMED SINCE JANUARY AND WERE NOT DUE UNTIL APRIL. DURING THE APRIL TESTING WHICH WAS THE FIRST USE OF THE NEW REVISION, THE PROBLEM WAS UNCOVERED BY THE SHIFT RUNNING THE PROCEDURE IN ITS ENTIRETY. THE PROBLEM WAS RECOGNIZED AND THE TEST TERMINATED PRIOR TO RENDERING BOTH TRAINS INOPERABLE.

HAD THE PROCEDURAL ERROR NOT BEEN RECOGNIZED NEITHER TRAIN OF RESIDUAL HEAT REMOVAL WOULD HAVE BEEN ABLE TO INJECT INTO THE CORE AUTOMATICALLY HAD A SAFETY INJECTION SIGNAL BEEN RECEIVED. THE AMOUNT OF TIME THE SECOND TRAIN WOULD BE INOPERABLE WITH THE HEAT EXCHANGER OUTLET VALVE CLOSED WOULD NORMALLY BE LESS THAN ONE HOUR. ADDITIONALLY HAD A SAFETY INJECTION OCCURRED THE CONTROL ROOM OPERATOR WOULD HAVE IMMEDIATELY RETURN ALL EQUIPMENT TO NORMAL. THEREFORE THE IMPACT OF THE PROCEDURAL ERROR WOULD HAVE BEEN MINIMIZED EVEN IF BOTH TRAINS HAD BEEN MADE INOPERABLE WHICH AT NO TIME DURING THIS EVENT OCCURED.

TO CORRECT THIS ERROR, PCS-1 TO REVISION 11 OF 1-OHP 4030.STP.005 WAS WRITTEN TO DELETE THE REQUIREMENT TO CLOSE THE HEAT EXCHANGER OUTLET VALVE ON THE TRAIN CONTAINING THE CHECK VALVE UNDER TEST. IT WAS DETERMINED THAT THE CLOSING OF THE HEAT EXCHANGER OUTLET VALVE WAS UNNECESSARY, AND THAT THE LOOP CHECK VALVES WOULD PROVIDE THE NECESSARY FLOW RESTRICTION TO CAUSE SUFFICIENT BACK PRESSURE TO SEAT THE CHECK VALVE. THE PERSONNEL INVOLVED HAVE BEEN MADE AWARE OF THE ERROR AND CAUTIONED ABOUT ASSUMING THE INITIAL CONDITIONS OF EQUIPMENT UNDER TEST.



INDIANA & MICHIGAN ELECTRIC COMPANY

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May 1, 1984

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Document Control Manager:

In accordance with the criteria established by 10CFR50.73
entitled Licensee Event Reporting System, the following
report/s are being submitted:

RO 84-002-0

Sincerely,

E L Townley

for W.G. Smith, Jr.
Plant Manager

/cbm

Attachment

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