

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) D. C. COOK PLANT UNIT-2	DOCKET NUMBER (2) 0 5 0 0 0 3 1 6	PAGE (3) 1 OF 0 2
---	---	-----------------------------

TITLE (4)
CONTROL ROD MISALIGNMENT

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)
07	09	84	84	018	000	06	08	84			0 5 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

OPERATING MODE (9) 2	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME A. A. BLIND ENGINEERING DEPARTMENT SUPERINTENDENT	TELEPHONE NUMBER AREA CODE 6 0 1 6 4 6 1 5 - 1 5 3 0 1 1
--	---

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
B	J D	R O D	W 1 2 0	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (if yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

ON 07-09-84 AT 1836 HOURS, DURING THE INITIAL STARTUP FOLLOWING A REFUELING OUTAGE, THE ROD POSITION INDICATION FOR RODS B-8 AND K-10 INDICATED GREATER THAN TWELVE (12) STEPS FROM THE GROUP DEMAND POSITION OF 228 STEPS. THE CONTROL ROD POSITIONS WERE CALCULATED BY SECONDARY COIL STACK VOLTAGE MEASUREMENTS AND IT WAS DETERMINED THAT B-8 WAS AT 214 STEPS AND K-10 WAS AT 215 STEPS INDICATING THAT BOTH RODS WERE MISALIGNED. THE EVENT WAS NON-CONSERVATIVE IN RESPECT TO TECHNICAL SPECIFICATION 3.1.3.1. THE APPLICABLE ACTION REQUIREMENT WAS MET AS THE UNIT WAS PLACED IN MODE 3 (HOT STANDBY).

ON 07-10-84 AT 1428 HOURS FOLLOWING ROD WITHDRAWAL, ALL CONTROL RODS WERE DETERMINED TO BE OPERABLE. THE RPI'S PREVIOUSLY EXCEEDING THE 12 STEP LIMIT, AS WELL AS OTHER RPI'S, WERE VERIFIED TO BE WITHIN ACCEPTABLE MARGINS BY SECONDARY COIL STACK VOLTAGE MEASUREMENTS. THE RODS WERE NOT BELIEVED TO BE MISALIGNED DUE TO VARIABLES AFFECTING THE SECONDARY COIL STACK VOLTAGES.

1522

8408130307 840808
PDR ADOCK 05000316
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (If more space is required, use additional NRC Form 388A's) (17)

ON 07-09-84 AT 1836 HOURS, DURING THE INITIAL STARTUP FOLLOWING A REFUELING OUTAGE, THE ROD POSITION INDICATION (RPI) FOR RODS B-8 AND K-10 INDICATED GREATER THAN TWELVE (12) STEPS FROM THE GROUP DEMAND POSITION OF 228 STEPS. THE LOW POWER PHYSICS TESTING THAT PRECEDED THIS EVENT HAD MOVED ALL THE CONTROL RODS FROM NEARLY FULL-IN TO NEARLY FULL-OUT POSITIONS. THE CONTROL ROD (IEEE COMPONENT FUNCTION IDENTIFIER = ROD) POSITIONS WERE CALCULATED BY SECONDARY COIL STACK VOLTAGE MEASUREMENTS. ROD B-8 WAS CALCULATED TO BE AT 214 STEPS AND ROD K-10 WAS CALCULATED TO BE AT 215 STEPS. THIS EVENT WAS NON-CONSERVATIVE IN RESPECT TO TECHNICAL SPECIFICATION 3.1.3.1, AS THERE WAS AN INDICATION THAT TWO (2) CONTROL RODS WERE MISALIGNED BY MORE THAN TWELVE (12) STEPS. THE APPLICABLE ACTION REQUIREMENT WAS MET AS THE UNIT WAS PLACED IN MODE 3 (HOT STANDBY). DUE TO THE CHANGING ELECTRICAL PROPERTIES OF THE PRESSURE HOUSING AND COIL STACKS FROM THERMAL CYCLING, THE SECONDARY VOLTAGES ARE UNSTABLE UNTIL THERMAL EQUILIBRIUM IS REACHED. THESE COMPONENTS HAD NOT REACHED THERMAL EQUILIBRIUM AT THE TIME THE VOLTAGE MEASUREMENTS WERE TAKEN. THIS IS BELIEVED TO BE THE CAUSE FOR THIS EVENT AS THE AC SECONDARY VOLTAGE READINGS TAKEN TO CALCULATE THE ROD POSITIONS DURING THIS EVENT HAD CHANGED FROM THE VALUES OBTAINED DURING RPI CALIBRATIONS.

ON 07-10-84, FOLLOWING ROD WITHDRAWAL, ALL RODS WERE DETERMINED TO BE WITHIN 12 STEPS OF GROUP DEMAND POSITION INDICATION. THE RPI'S PREVIOUSLY EXCEEDING THE 12 STEP LIMIT, AS WELL AS OTHER RPI'S WERE VERIFIED TO BE WITHIN ACCEPTABLE MARGINS BY SECONDARY COIL STACK VOLTAGE MEASUREMENTS.



INDIANA & MICHIGAN ELECTRIC COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

August 8, 1984

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

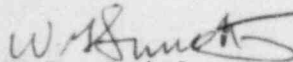
Operating License DPR-74
Docket No. 50-316

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 84-018-0

Sincerely,


W.G. Smith, Jr.
Plant Manager

/cbm

Attachment

cc: John E. Dolan
J.G. Keppler, RO:III
M.P. Alexich
R.F. Kroeger
H. Brugger
E.R. Swanson, RO:III
R.C. Callen, MPSC
G. Charnoff, Esq.
J.M. Hennigan
R.O. Bruggee, EPRI
INPO
PNSRC
J.F. Stietzel
E.L. Townley
Dottie Sherman, ANI Library

IE22
11