

**LICENSEE EVENT REPORT (LER)**

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

TITLE (4)

INADVERTENT ESF ACTUATION - SAFETY INJECTION SIGNAL

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	7	2	8	8	5	8	5	—	0	1	4	—	0	0	0	8	2	7	8	5						0	5	0	0	0				

OPERATING MODE (8)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
5		20.402(b)		20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)		73.71(b)			
POWER LEVEL (10)	01010	20.405(a)(1)(i)		50.33(c)(1)		50.73(a)(2)(v)		73.71(c)			
		20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 355A)			
		20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)					
		20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)					
		20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)					

NAME		TELEPHONE NUMBER	
A. A. BLIND, ASSISTANT PLANT MANAGER		AREA CODE	
		6   1   6	4   6   5   -   5   9   0   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	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO				

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

ON JULY 28, 1985 AT 1840 HOURS WITH THE UNIT IN MODE 5 (COLD SHUTDOWN) AN INADVERTENT SAFETY INJECTION SIGNAL WAS GENERATED DURING THE INSTALLATION OF A DESIGN CHANGE. THE EVENT OCCURRED WHEN TWO OF THE FOUR CONTROL ROOM INSTRUMENTATION DISTRIBUTION (CRID) BUSES WERE BEING POWERED BY THE ALTERNATE POWER SOURCE (BUS 2D) DURING REPLACEMENT OF THE NORMAL POWER SOURCE (INVERTERS). THE SIGNAL WAS GENERATED WHEN REACTOR COOLANT PUMP NO. 3, ALSO POWERED FROM BUS 2D, WAS STARTED CAUSING A VOLTAGE DROP RESULTING IN A MOMENTARY REDUCTION OF POWER TO BUSES CRID III AND CRID IV. THIS REDUCED THE OUTPUT FROM CHANNELS III AND IV OF THE REACTOR PROTECTION SYSTEM WHICH IN TURN TRIPPED BOTH CHANNELS AND INITIATED THE SAFETY INJECTION SIGNAL.

THIS EVENT DOES NOT CONSTITUTE AN UNREVIEWED SAFETY CONCERN SINCE THE EVENT OCCURRED WHEN THE ECCS WAS NOT REQUIRED (MODE 5).

THE CONDITIONS RESPONSIBLE FOR THIS EVENT WERE THE RESULT OF THE INSTALLATION OF A DESIGN CHANGE, THEREFORE, NO ACTION WAS TAKEN TO PREVENT RECCURANCE.

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PDR ADJCK 05000316  
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**INDIANA & MICHIGAN ELECTRIC COMPANY**

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

August 27, 1985

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 85-014-0

Sincerely,

for W.G. Smith, Jr.  
Plant Manager

/cbm

Attachment

cc: John E. Dolan  
J.G. Keppler, RO:III  
M.P. Alexich  
R.F. Kroeger  
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11