

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) D.C. COOK NUCLEAR PLANT, UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 3 1 5	PAGE (3) 1 OF 03
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TITLE (4)
UNATTENDED INOPERABLE FIRE DOOR

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)
1	0	4	8	5	0	5	1	0	0	0	0
1	1	0	4	8	5				0	5	0

OPERATING MODE (9) 5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 0	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)						
	20.406(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)						
	20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(ii)	50.73(a)(2)(viii)(A)							
	20.406(a)(1)(iv)	50.73(a)(2)(iii)	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)		TELEPHONE NUMBER	
NAME 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	MANUFAC TURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NPROS

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 OCTOBER 4, 1985, AT 0030 HOURS WITH UNIT 1 IN MODE 5 (COLD SHUTDOWN), DURING A TOUR OF THE 4KV SWITCHGEAR ROOM BY AN OPERATOR, IT WAS DISCOVERED THAT FIRE DOOR NO. 345 WAS OPEN WITHOUT A FIRE WATCH STATIONED WHILE IN AN INOPERABLE CONDITION FOR APPROXIMATELY 4 HOURS.

FIRE DOOR NO. 345 PROVIDES A FIRE BARRIER SEPARATION BETWEEN FIRE AREA 42 (TRANSFORMER, CONTROL ROD DRIVE, MOTOR CONTROL CENTER AND BATTERY ROOM UNIT 1) AND FIRE AREA 41 (ENGINEERED SAFETY SYSTEMS AND MOTOR CONTROL CENTER ROOM UNIT 1). THE DOOR HAD BEEN DECLARED INOPERABLE ON JULY 24, 1985, DUE TO A FAILURE TO PROPERLY CLOSE. THE DOOR WOULD DROP AFTER AN AUTOMATIC RELEASE BUT WOULD REBOUND AND REMAIN APPROXIMATELY TWO AND ONE HALF INCHES OPEN.

THE FIRE DOOR HAD BEEN SHUT AND A CLEARANCE TAG PLACED ON THE CONTROL SWITCH, BREAKER AND MANUAL CHAIN OPERATOR TO PREVENT OPERATION OF THE DOOR WITHOUT THE SHIFT SUPERVISORS PERMISSION. ALSO, A CAUTION TAG WAS PLACED ON THE FIRE DOOR STATING THAT A FIRE WATCH MUST BE STATIONED PRIOR TO OPENING THE DOOR. A ONE HOUR FIRE TOUR WAS NOT ESTABLISHED AS PLANT PERSONNEL BELIEVED HAVING THE DOOR TAGGED SHUT MET THE INTENT OF THE TECHNICAL SPECIFICATION ACTION STATEMENT. THIS IS CONTRARY TO TECHNICAL SPECIFICATION 3/4.7.10. THE INDIVIDUAL RESPONSIBLE FOR OPENING THE FIRE DOOR COULD NOT BE DETERMINED.

TO PREVENT RECURRENCE; 1) THE CLEARANCE WILL REMAIN IN EFFECT WITH THE DOOR SHUT, AND 2) THE ONE HOUR FIRE WATCH HAS BEEN ESTABLISHED PER THE TECHNICAL SPECIFICATIONS.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

ON OCTOBER 4, 1985, AT 0030 HOURS WITH UNIT 1 IN MODE 5 (COLD SHUTDOWN), DURING A TOUR OF THE 4KV SWITCHGEAR ROOM BY AN OPERATOR, IT WAS DISCOVERED THAT FIRE DOOR NO. 345 WAS OPEN WITHOUT A FIRE WATCH STATIONED WHILE IN AN INOPERABLE CONDITION FOR APPROXIMATELY 4 HOURS. THE DOOR WAS KNOWN TO HAVE BEEN SHUT 4 HOURS PRIOR TO IT BEING DISCOVERED OPEN.

FIRE DOOR NO. 345 PROVIDES A FIRE BARRIER SEPARATION BETWEEN FIRE AREA 42 (TRANSFORMER, CONTROL ROD DRIVE, MOTOR CONTROL CENTER AND BATTERY ROOM UNIT 1) AND FIRE AREA 41 (ENGINEERED SAFETY SYSTEMS AND MOTOR CONTROL CENTER ROOM UNIT 1). THE DOOR HAD BEEN DECLARED INOPERABLE ON JULY 24, 1985, DUE TO A FAILURE TO PROPERLY CLOSE. THE DOOR WOULD DROP AFTER AN AUTOMATIC RELEASE BUT WOULD REBOUND AND REMAIN APPROXIMATELY TWO AND ONE HALF INCHES OPEN.

THE FIRE DOOR HAD BEEN SHUT AND A CLEARANCE TAG PLACED ON THE CONTROL SWITCH, BREAKER AND MANUAL CHAIN OPERATOR TO PREVENT OPERATION OF THE DOOR WITHOUT THE SHIFT SUPERVISORS PERMISSION. ALSO, A CAUTION TAG WAS PLACED ON THE FIRE DOOR STATING THAT A FIRE WATCH MUST BE STATIONED PRIOR TO OPENING THE DOOR. A ONE HOUR FIRE TOUR WAS NOT ESTABLISHED AS PLANT PERSONNEL BELIEVED HAVING THE DOOR TAGGED SHUT MET THE INTENT OF THE TECHNICAL SPECIFICATION ACTION STATEMENT. THIS IS CONTRARY TO TECHNICAL SPECIFICATION 3/4.7.10.

THE INDIVIDUAL RESPONSIBLE FOR OPENING THE FIRE DOOR COULD NOT BE DETERMINED. THE CLEARANCE TAGS WERE CLEARLY VISIBLE TO ANY PERSON WANTING TO OPERATE THE DOOR. ALL PERSONNEL WORKING ON SITE RECEIVE TRAINING ON THE PLANTS CLEARANCE PERMIT SYSTEM.

SAFETY EVALUATION

A SAFETY EVALUATION WAS PERFORMED ON SEPTEMBER 24, 1985, IN RESPONSE TO THE INITIAL CONDITION REPORT DECLARING THE DOOR INOPERABLE. WE FEEL THAT A FIRE WOULD NOT PROPAGATE OUT OF FIRE AREA 41 WITH FIRE DOOR NO. 345 CLOSING TO WITHIN 4 INCHES OF THE FLOOR FOR THE FOLLOWING REASONS. 1) ALL OTHER DEFENSE IN DEPTH FIRE PROTECTION FEATURES EXCEPT FOR THE DOOR WOULD HAVE REMAINED THE SAME. 2) THE ADJACENT FIRE AREA 42 IS PROTECTED BY DETECTION AND CO₂ SUPPRESSION. 3) THE FIRE BRIGADE WOULD RESPOND TO THE AREA AS SOON AS THE EARLY WARNING DETECTION SYSTEM WAS HEARD. IT IS ASSUMED THEIR RESPONSE WOULD BE TO CLOSE THE FIRE DOORS WHICH WOULD PRESERVE THE REMAINING CO₂ CONCENTRATION. OUR CALCULATIONS REVEAL THAT THE ORIGINAL 45 PERCENT CO₂ CONCENTRATION WOULD DROP TO 34 PERCENT CONCENTRATION IN 20 MINUTES. MULTIPLE DISCHARGES OF CO₂ WOULD BE AVAILABLE FROM THE CO₂ SYSTEM IF THE FIRE BRIGADE DEEMED IT NECESSARY. MANUAL FIRE FIGHTING EQUIPMENT AND HOSE STATIONS ARE READILY AVAILABLE FOR USE BY THE FIRE BRIGADE.

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		8 5	- 0 5 1	- 0 0	0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

THE PROCEDURAL CONTROLS FOR CLEARANCE TAGS ARE ENFORCED AND EVERY EFFORT IS MADE TO INSURE THESE CONTROLS ARE COMPLIED WITH BY ALL PERSONNEL ON SITE. THIS INCIDENT (CLEARANCE TAG IGNORED) IS CONSIDERED ISOLATED IN NATURE AND NOT GENERIC.

TO PREVENT RECURRENCE; 1) THE CLEARANCE WILL REMAIN IN EFFECT WITH THE DOOR SHUT, AND 2) THE ONE HOUR FIRE WATCH HAS BEEN ESTABLISHED PER THE TECHNICAL SPECIFICATIONS.



INDIANA & MICHIGAN ELECTRIC COMPANY

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

November 4, 1985

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

Operating License DPR-58
Docket No. 50-315

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 85-051-0

Sincerely,

W.G. Smith, Jr.
Plant Manager

/cbm

Attachment

cc: John E. Dolan
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