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 AUTH. NAME      AUTHOR AFFILIATION  
 HODGE, W.M.      Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 BLIND, A.A.      Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: LER 94-005-00: on 931228, TS surveillance was missed due to failure of individual to perform assigned duties.  
 Developed random monitoring program & revised fire watch patrol training & implementing procedures. W/940609 ltr.

DISTRIBUTION CODE: IE22T      COPIES RECEIVED: LTR 1 ENCL 1      SIZE: 4  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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Indiana Michigan  
Power Company  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
616 465 5901



June 9, 1994

United States Nuclear Regulatory Commission  
Document Control Desk  
Rockville, Maryland 20852

Operating Licenses DPR-58  
Docket No. 50-315

Document Control Manager:

In accordance with the criteria established by  
10 CFR 50.73 entitled Licensee Event Report System, the  
following report is being submitted:

94-005-00

Sincerely,

A. A. Blind  
Plant Manager

/sb

Attachment

c: J. B. Martin, Region III  
E. E. Fitzpatrick  
P. A. Barrett  
R. F. Kroeger  
M. A. Bailey - Ft. Wayne  
NRC Resident Inspector  
J. B. Hickman - NRC  
J. R. Padgett  
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S. J. Brewer

9406160028 940609  
PDR ADDCK 05000315  
S PDR

JE22

## LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) D. C. Cook Nuclear Plant - Unit 1 DOCKET NUMBER (2) 05000 315 PAGE (3) 1 OF 3

TITLE (4) Failure of Fire Watch Personnel to Perform Assigned Duties Resulting in Missed TS Required Surveillance

EVENT DATE (5)			LER NUMBER (6)			REPORT NUMBER (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
12	28	93	94	-- 0005 --	00	06	09	94	FACILITY NAME	DOCKET NUMBER
										05000
									FACILITY NAME	DOCKET NUMBER
										05000

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)						
POWER LEVEL (10)	100	20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)
		20.405(a)(1)(i)		50.36(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
		20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		(Specify in Abstract below and in Text, NRC Form 366A)
		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)(x)		

## LICENSEE CONTACT FOR THIS LER (12)

NAME W. M. Hodge - Plant Protection Superintendent TELEPHONE NUMBER (Include Area Code) 616-465-5901

## 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)

YES (If yes, complete EXPECTED SUBMISSION DATE) X NO EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

## ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On 6/1/92, the fire protection for multiple areas of the Plant was declared inoperable due to the uncertainties regarding the fire proofing material used to protect components and cabling within those areas. Compensatory actions required by the Technical Specifications (TS) were established. On 2/11/94, a routine review of completed Fire Watch (FW) patrol records identified three (3) discrepancies in which an hourly FW patrol on the Essential Service Water (ESW) pump room was not conducted for a period of 1 hour 29 minutes on 12/28/93, 1 hour 38 minutes on 12/30/93 and 1 hour 29 minutes on 12/31/93. Additional reviews were conducted and identified one (1) additional discrepancy in which an hourly FW patrol was not conducted on the U-1 CD Emergency Diesel Generator (EDG) room for 1 hour 22 minutes on 2/24/94.

A random monitoring program has been developed to review FW tours. These events, lessons learned from these events, and management expectations were conveyed to Plant Protection personnel. FW patrol training and implementing procedures are being revised to incorporate the lessons learned from these events.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-830), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)  D. C. Cook Nuclear Plant - Unit 1	DOCKET NUMBER (2)  0 5 0 0 0 3 1 5 9 4	LER NUMBER (8)			PAGE (3)						
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER							

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

DESCRIPTION OF EVENT

On 6/1/92, the fire protection for multiple areas of the Plant was declared inoperable due to the uncertainties regarding the fire proofing material used to protect components and cabling within those areas.

On 2/11/94, a routine review of completed FW patrol tour records associated with TS related Fire Doors (FD) and other non-safety related FD for the months of November and December 1993, and January 1994, was conducted. This review revealed five discrepancies attributed to a single FW individual at the Unit 1 ESW pump room (door designation 1-GT-SCN212A-323).

From this review, the FW tour records generated by this individual for the time period November 17 through December 31, 1993 were examined to determine the extent of the problem. Twenty-two (22) total discrepancies were identified for this individual. Of the 22 discrepancies, three (3) were determined to have exceeded the requirements of TS 3.7.10. The other nineteen (19) were determined to have violated procedural requirements. No compensatory actions were taken as this review was of past events.

Based on these two reviews, a review was conducted of an additional 10% of the TS related FW patrols/tours and other non-safety related FW and FD tours for the period December 1993 through February 1994. This review identified six (6) additional procedural violations and one (1) discrepancy that had exceeded the requirements of TS 3.7.10. The discrepancy involved the U-1 CD EDG room.

CAUSE OF EVENT

For the documentation reviewed, it appears the cause was the failure of the individual(s) to perform their assigned duties. A contributing cause to these events was that management follow-up/monitoring of activities did not identify the discrepancies.

ANALYSIS OF EVENT

The TS 3.7.10 action statement for an inoperable fire rated assembly requires that "...within 1 hour: 1) verify that the fire detectors and/or fire suppression system on at least one side of the inoperable assembly are OPERABLE and establish an hourly fire watch patrol, or 2) establish a continuous fire watch patrol on one side of the penetration...".

Failure to maintain an hourly FW patrol was a violation of TS 3.7.10 and is reportable under 10 CFR 50.73(a)(2)(i)(B).

The U-1 ESW pump room (Fire Zone 29-G) and U-1 CD EDG room (Fire Zone 15) was being toured because it contains fire protective coating material which the Plant declared inoperable on 6/1/92. The hourly FW patrol was not conducted for a period of 1 hour 29 minutes on 12/28/93, 1 hour 38 minutes on 12/30/93 and 1 hour 29 minutes on 12/31/93 in the ESW pump room. The hourly FW patrol was not conducted for a period of 1 hour 22 minutes on 2/24/94 in the U-1 CD

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 4	0 0 5	0 0	0 3	OF	0 3

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

ANALYSIS OF EVENT (cont'd)

EDG room. The analysis of this event concludes that in the unlikely event of a fire, personnel would have been promptly aware of its presence and would have extinguished the fire without significant spreading of the fire or equipment damage. This conclusion is based on the following:

1. The detection for FZ 29-G and FZ-15 was in an operable state, in the event of a fire, the detectors would have alarmed in the U-1 Control Room, which is manned 24 hours a day. This alarm condition would have been investigated and the appropriate Fire Brigade resources would have been dispatched to mitigate the fire.
2. Manual fire protection equipment was readily available for Fire Brigade use if they deemed necessary.

Although an hourly FW patrol was not conducted for 1 hour 29 minutes, 1 hour 38 minutes, 1 hour 29 minutes and 1 hour 22 minutes respectively, it is concluded that the alarms/detection associated with the affected FZ would have allowed timely identification of a fire. Therefore, these events are not considered to have created a significant safety concern, nor did it create a significant hazard to the health and safety of the general public.

CORRECTIVE ACTION

1. A random monitoring program was developed to review fire watch tours.
2. These events, lessons learned and management expectations were conveyed to Plant Protection personnel during meetings held during the month of May 1994.
3. Fire Watch patrol training and implementing procedures are being revised to incorporate the lessons learned from these events.

PREVIOUS SIMILAR EVENTS

None