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## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL: 5 AUTH.N. SAMPSON	0-315 Donald C. Co AME AUTHOR ,J.R. Indiana .A. Indiana	ok Nuclear AFFILIATION Michigan Po	: 90/05/10 NOTARIZE Power Plant, Unit 1 N ower Co. (formerly 1 ower Co. (formerly 1 FION	L, Indiana Indiana &	Michigan Ele
SUBJECT	: LER 90-003-00:on inoperable w/o r	900410,py equired rov	ralarm fire detectio ving fire watch. 1	W/9	ltr.
	UTION CODE: IE22T 50.73/50.9 License		CEIVED:LTRENCL port (LER), Incident	SIZE: Rpt, etc	
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May 7, 1990

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

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**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 Reporting System, the following report is being submitted:

90-003-00

Sincerely,

A.A. Blind Plant Manager

AAB:clw

Attachment

D.H. Williams, Jr. cc: A.B. Davis, Region III M.P. Alexich P.A. Barrett J.E. Borggren R.F. Kroeger NRC Resident Inspector J.G. Giitter, NRC J.G. Keppler R.C. Callen G. Charnoff, Esq. Dottie Sherman, ANI Library D. Hahn INPO S.J. Brewer/B.P. Lauzau 2005220273 200510 PDR ADOCK 0500031 n,

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NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION (6-89)												APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS															
LICENSEE EVENT REPORT (LER) LICENSEE EVENT REPORT (LER) AND REPORTS ANAGE REGULATORY COMMISS THE PAPERWORK RED OF MANAGEMENT AND											ECTIONG B	NLOON REQUEST: 50.0 HRS. FORWARD BURDEN ESTIMATE TO THE RECORDS NENT BRANCH (P530), U.S. NUCLEAR DN, WASHINGTON, DC 20555, AND TO CTION PROJECT (3150-0104), OFFICE UDGET, WASHINGTON, DC 20503.															
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D. C. Cook Nuclear Plant, Unit 1 0 15 0 0 0												13	1 5	1	OF	0   4											
TITLE (4) Pyralarm Fire Detection Zone Inoperable Without																											
Required Roving Fire Watch Due to Personnel Error																											
EVE	NT DATE	(5)			_		MBER				PORT DAT	rE (;	7)		OTHER FACILITIES INVOLVED (8)												
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On 04-10-90 at about 1310, a pyralarm fire detection zone was rendered inoperable when the detection control panel was permeated by steam and water from a steam generator blowdown system safety valve. The Unit Supervisor failed to declare the zone inoperable and post a roving fire watch. At about 1645, the error was noted. The zone was declared inoperable and a roving fire watch was posted to satisfy the Technical Specification Action Statement. The zone was inoperable without the required roving fire watch for 3 hours 35 minutes.

This event was reviewed with the involved personnel and an Operations Standing Order was written to provide guidelines for the posting of fire watches.

LICENSEE EVENT REI TEXT CONTINUA	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH 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)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3) YEAR SEQUENTIAL REVISION NUMBER					
D. C. Cook Nuclear Plant, Unit 1	0  5  0  0  0   3   1   5	590 - 0103 - 010 012 OF 0 4					
TEXT (If more space is required, use additional NRC Form 366A's) (17)							

## Conditions Prior to Occurrence

Unit 1 (U-1) in Mode 1 operating at 100%.

Unit 2 (U-2) in Mode 2 operating at 100%.

### Description of Event

On 04-10-90 at about 1310, the pyralarm fire detection (EIIS/IC-DET) zone for the Auxiliary Building East Valve Enclosure Non-Essential Service Water Area (EFR ZN 28) was rendered inoperable when the Fire Detection Panel (EIIS/IC-PL) was permeated by steam and water from a steam generator blowdown system safety valve (EIIC-WI/RV). With EFR ZN 28 inoperable, the Unit Supervisor failed to post a roving fire watch patrol to tour the inoperable fire detection zone per Technical Specification (TS) 3.3.3.7 (Fire Detection Instrumentation). The following is a review of the events associated with this finding.

On 04-10-90 at about 1222, the U-1 Steam Generator Blowdown System was placed on the Normal Blowdown Flash Tank (EIIC-WI/TK) per 1-OHP 4021.025.001 (Operation of Steam Generator Blowdown System). This blowdown lineup required 1-DRV-350 (Steam Generator Blowdown Tanks Drain Valve) control switch (EIIC-WI/HC) to be placed in auto.

At about 1300, U-1 Annunciator Pyralarm Abnormal for Fire Alarm (EIIC-IB/ALM) for EFR ZN 1 (573' Elevation Auxiliary Building), EFR ZN 28 and EFR ZN 4 (633' Elevation Auxiliary Building) came in. An operator was dispatched to each Auxiliary Building zone area to investigate. The operator touring EFR ZN 4 area noted that the Steam Generator Blowdown Tank Safety was lifting. Following a report to the Control Room, the Control Room closed the Blowdown Isolation Valves (EIIC-WI/ISV). It was subsequently found that 1-DRV-350 was in the closed position due to its control switch not being fully in the automatic position.

The 1-DRV-350 control switch was placed in auto and the U-1 Steam Generator Blowdown System was restored to normal.

Within about 10 minutes of receiving the three fire detection zone alarms, EFR ZN 1 and EFR ZN 4 cleared. The Unit Supervisor (US), believing that the zone alarms were caused by steam, felt that the EFR ZN 28 would also clear within a short time. The US decided to observe the EFR ZN 28 alarm for a short time before declaring the zone inoperable. The US, however, became involved with other items and forgot about the need to post a fire watch if the alarm did not promptly clear.

NRC FORM 366A U.S. NUCLEAR REGULATORY COM	AFFROTED ON DITOTOTOTOTOTOT
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•	REGULATORY COMMISSION, WASHINGTON, 565 0041, OFFICE THE PAPERWORK REDUCTION PROJECT (3150 0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
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At about 1420, the involved US was relieved.	The Steam Generator Blowdown
event was discussed during the turnover. As	the second US prepared to
turnover to the next shift, he noted that EFR	ZN 28 had not been declared
inoperable. The US declared EFR ZN 28 inoper	able per TS 3.3.3.7 and
notified the fire watch to patrol the area pr	otected by EFR ZN 28.
Course OF Frank	
<u>Cause Of Event</u>	
The cause of this event was personnel error.	The involved US failed to
declare the EFR ZN 28 fire detection zone ino	perable and post a roving fire
watch per TS 3.3.3.8.	,
Contributing to this event was a mind set dev	reloped by the US set Iollowing
the clearing of EFR ZN 1 and EFR ZN 4 alarm w	vitnin about iv minutes. It
was believed that the EFR ZN 28 alarm would a time which would satisfy the TS 3.3.3.7 action	n statement.
cime which would satisfy the 15 5.5.5.7 attic	
	•
Analysis of Event	
The failure to assign a fire watch patrol wit	thin one hour to tour the
inoperable fire detection area was a violation $10 \text{ CFP} = 50 - 73(n)(2)(1)(b)$	on of 15 5.5.5.7 and therefore,
reportable under 10 CFR 50.73(a)(2)(i)(b).	
The EFR ZN 28 pyralarm detection system was i	inoperable from about 1310 to
1645, 3 hours 35 minutes, without a roving fi	ire watch assigned to patrol
the area.	
Following a review of this event, the analysi	ts of this event concludes that
in the unlikely event of a fire, personnel we	buigh the fire without
and would have been able to control and extin significant spreading of the fire or equipmen	against the fire wronout
based on the following.	The complete the construction to
	· ,
Although a roving fire watch was not assigned	i specifically to tour the area
protected by EFR ZN 28 fire detection, a trai	ined fire watch was assigned to
monitor two non-Technical Specification fire	doors located within the
detection zone each 30 minutes. The location	n of the two doors required the
roving fire watch to pass through a major par	IT OI THE AREA PROTECTED DY EFK
ZN 28. Had a fire occurred within a portion by the fire watch, the fire would have been a	of the fire and the roving fire watch
and corrective action would have been taken.	Had a fire occurred within

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NRC FORM 366A (6'89)	U.S. N	UCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-010	4
	LICENSEE EVENT REPORT (	LER)	EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO CO INFORMATION COLLECTION REQUEST: 50.0	MPLY WTH THIS HRS. FORWARD
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FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
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	ortion of EFR ZN 28 not be			
	gh open deck grating and s Following the observance			
	ctive actions would have b		and/of smell of smoke,	
Page			* • • • • • • • • • • • • • • • •	н.
	l on this analysis, this ev ficant safety concern, nor			
	h and safety of the genera		-	
Corre	ctive Action	·		
1.	When the US recognized tha	t EFR ZN 28 had not	been declared	
	inoperable and that a rovi	ng fire watch had no	ot been posted, EFR ZN 28	3
	was declared inoperable an	d a roving fire wate	ch was posted.	
	This event was discussed w			
	Supervisor. The personnel requirements for inoperabl			
	reduirements for imperati	e life detection in		
	The involved US was counse			
	fully aware of his respons inoperable and to promptly			
	action statement.			•
4.	An Operations Standing Ord	er for the posting (	of continuous and roving	
	fire watches was written t			
	and roving fire watches.			
	A training memo was sent t		nel to review the	
	Operations Standing Order.			
	A job order was written to	inspect and repair	the detection control	
	panel.		n	
Previ	<u>ous_Similar_Events</u>			
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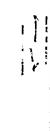
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