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	ald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315	
AUTH.NAME SAMPSON,J.R.	AUTHOR AFFILIATION Indiana Michigan Power Co. (formerly Indiana & Michigan Ele	,
BLIND, A.A.	Indiana Michigan Power Co. (formerly Indiana & Michigan Ele	
RECIP.NAME	RECIPIENT AFFILIATION	R

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SUBJECT: LER 90-004-02:on 900508, inadvertent operation of wrong control switch due to personnel error.W/901129 ltr.

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

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Indiana Michiga Power Company Cook Nuclear Plant One Cook Place Briogman Mi 4919 616 405 55



November 29, 1990

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 <u>Licensee Event Reporting System</u>, the following report is being submitted:

90-004-02

Sincerely,

A.A. Blind

Plant Manager

AAB:clj

Attachment

cc: D.H. Williams, Jr. A.B. Davis, Region III M.P. Alexich P.A. Barrett J.E. Borggren R.F. Kroeger B. Walters - Ft. Wayne NRC Resident Inspector T. Colburn - NRC J.G. Keppler M.R. Padgett G. Charnoff, Esq. Dottie Sherman, ANI Library D. Hahn INPO S.J. Brewer/B.P. Lauzau B.A. Svensson 0:40 右国国語の

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NRC FC (6-89)	RM 366				U.S. NI	JCLEAR R	EGULATO	RY COMMI	SSION			D OMB NO, 3 PIRES: 4/30/9			,
LICENSEE EVENT REPORT (LER) SINFORMATION COLLECTION REQUEST: 50.0 HRS, FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANINGTON, U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK AND BUDGET, WASHINGTON, DC 20503.									RWARD CORDS ICLEAR AND TO OFFICE						
FACILIT	Y NAME (1) "			•			······		i	DOCKET NUMBER	(2)		PAG	E (3)
	D. C. Cook Nuclear Plant, Unit 1 0 5 0 0 0 3 1 1 5 1 0 0 6														
TITLE (тпа	dvertent	Operation	of the	Wrong	g Con	trol S	Switch	Due	to P	ersonnel	Error	<u> </u>		<u> </u>
	Res	ulted in (<u>Opening</u> of	the Ic	e Cor	dens	er Low	ver In	let l	Doors					
	ENT DATI	. (5)	LER NUMBER (6)	RE	PORT DAT	(E (7)				FACILITIES INVO	LVED (8)			
MONTH	DAY	YEAR YEAR	SEQUENTIAL NUMBER	NUMBER	MONTH	DAY	YEAR		FACI	LITY NAM	AES	DOCKET N	UMBER(\$1	
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L	· · · ·		COMPLETE	ONE LINE FOR	EACH CO	MPONEN	FAILURE	DESCRIBI	ED IN THÌ	S REPOR	T (13)			**	
CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE			CAUSE	SYSTEM	COMP	ONENT	MANUFAC TURER	REPORTA TO NPR			
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	[]	I,II		NTAL REPORT	FYPECTE	D 1141	<u> </u>	<u> </u>	<u> </u>		╏──┟──┤──┤			DAY	YEAR
		e .									EXPECTI SUBMISSI				TEAN
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	Thi	e rovicio	n waaahadu												
		S LEVISIO	n reschedu	ues and	clar	ities	s the	preve	ntive	e act	ion.				
	On	May 8, 199	90 at 155	5 2 20						. 7					
	con	tainment 1	90, at 155 recirculat	ion fan	ACLOI (CEC	Oper	ator	inadv	erter	ntiy :	started a	2			
•	rec	ombiner du	aring a su	rveilla	nce t	oct	Tho	for o		iende	a nyaroge	en . ees . s .			
	dif	ferential	pressure	across	the i	ce co	ndeng	er lo	vor i	nlot	doorg to	IIIIC16			
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	Var	ious venti	lation al	ignment	s wer	e att	empte	d to	reclo	ose ti	he inlet	doors	hut		
	witc	nout succe	ess. The	ice con	dense	r was	: decl	ared	inone	rahle	at 2120	whon	i +-		
	without success. The ice condenser was declared inoperable at 2129 when it was determined that the TS 3.6.5.1 maximum ice bed temperature of 27°F had														
been exceeded. Fower was decreased to eight percent at 1125 on May 9 1000															
	to allow lower containment entry and manual closure of the lower ice condensor														
	TUT	et doors.	The inte	t doors	were	clos	ed an	d dec	lared	lopei	table at	1248	The	× .	
	inlet doors. The inlet doors were closed and declared operable at 1248. The ice bed temperatures were determined to be within the TS limits at 1325 on														
}	May 19, 1990. Therefore, the TS 3.6.5.1 requirement to restore the ice bed to operable status within 48 hours was met. The required work practices to														
	ober	Labre Stat	us within	48 nou	rs wa	s met	. Th	e rea	uired	work	r practic	or to			1
	prev	venc recur	rence or .	a simila	ar ev	ent w	ere r	eview	ed wi	th th	ne involv	od Roa	ctor		
	obei	ember 15,	comprenen	sive sel	LI-ch	eckin	g pro	gram v	will	be fu	illy impl	emente	d by	1	
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NRC F.ORM 366A (6-89)	U.S.	NUCLEAR REGULAT	ORY COMMISSION					AB NO. 315	0-0104		
	LICENSEE EVENT REPORT (LER)			EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH TH INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWA							THIS
	TEXT CONTINUATION				EPORTS	EGARDIN S MANAC	G BURD	DEN ESTIM	ATE TO T (P-530), U	HE RECO	EAR
		-		REGUL	ATORY	COMMIS	SION, V	VASHINGT N PROJEC	ON, DC 20 T (3150-0	0555, AND 104), OFI	D TO FICE
ACILITY NAME (1)		DOCKET NUMBER	/21	OF MANAGEMENT AND BUDGET, W/				et, WASHI			
	1	-	127	LER NUMBER (6)			P.	AGE (3)			
-			i.		<u> </u>	NUMBER		NUMBER			
D., C. Cook Nuclear P	lant, Unit l	0 5 0 0	0 3 1 5	910	-lo	01	4	0 2	0 2	OF	$\left \right $
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	t										
This revision r	eschedules and cla	rifies the	preventiv	ve act	ion					1	
			Freedoment			•				1	
	1		<i>P</i>								
<u>Conditions Prio</u>	<u>r to Occurrence</u>										
Unit 1 in Mada	1					' I		•			
onic i in Mode	1 at 70 percent re	eactor ther	mai power.	•							
						•					
Description of	Event		*								
On May 8, 1990,	at 1555 hours, a	Reactor Op	erator (RO	D) (li	cens	sed o	pera	ator)			
inadvertently s	tarted a containme	ent recircu	lation far	n (CEQ) (1	EIIS/	'BB-1	FAN)		-	
testing. The f	intended hydrogen an operated for ap	recombiner	(EIIS/BB·	-RCB)	aur: whi	ing s	urve	elilar	nce		
sufficient diff	erential pressure	across the	ice conde	enser	lowe	er in	let	doors	3		
(EIIS/BC-DR) to	open all the door	s.			20		200	40021			
The opening of	the lower ice cond	lenser inle	t doors wa	as ann	unci	iated	in	the			
opened because	Initially, there w	as uncerta	inty conce	erning	why	y the	doc	ors Do had	1		
correctly locat	the RO did not rea ed the hydrogen re	combiner o	an nad bee	en sta	TCeC FTTC	2. 1 2/88_	ne f	(U nac	1 h+		
looked away from	m the panel to the	clock in	the front	of th	6 70 6113	- dd yc nom w	hen	reach	juc jng		
for the hydrogen	n recombiner contr	ol switch.	The RO i	Inadve	rter	ntlv	gras	sped t	the		
CEQ fan control	switch (EIIS/BB-F	AN-HS), lo	cated dire	ectly a	adia	acent	to	the			
hydrogen recomb:	iner control switc	h, and, un	knowingly,	appl	ied	enou	gh r	ressu	ire		
to momentarily	take the control s	witch out	of the "au	itomat:	ic"	posi	tior	and			
make up the run	contacts. The pr	essure on	the contro	ol swi	tch	was	rele	eased	_		
breaker to reop	return it to the en (green light on	automatic	position,	which		Lowed	the	CEQ	fan		
grasped the wron	ng control switch.	Tt was s	the RU re	v ide	ng t nrif	inac Fied	ner at 1	180 630 +	har		
the CEQ fan inle	et damper (EIIS/BB	-BDMP) was	open.	., 100			ut J		mat		
,			-								
Although a start	t of the CEQ fan i	s one of tl	ne signals	whicl	h wi	111 c	ause	•			
automatic openin	ng of the inlet da	mper, it wa	as not ide	ntifi	ed t	:hat	a st	art o	ef -		

automatic opening of the inlet damper, it was not identified that a start of the CEQ fan had caused the damper opening. It was speculated that the damper was opened inadvertently or spuriously and that this opening had allowed the pressure differential which opened the inlet doors.

Since the ice condenser (EIIS/BC) is one of the Engineered Safety Features (ESF), the decision was made to consider the opening of the inlet doors as an ESF actuation and a four-hour report was made to the Nuclear Regulatory Commission (NRC) at 1743 hours.

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NRC FORM 366A (6-89)	APPROVED OMB NO. 3150 0104 EXPIRES: 4/30/92									
LICENSEE EVENT REPORT (LER) TEXT CONTINUATION				URDEN PI N COLLEC EGARDING S MANAGE COMMISS ORK REDI IENT AND I	TION BURD MENT ION, W JCTIO	REQUEST DEN ESTIN BRANCH VASHINGT N PROJEC	4 50.0 HR MATE TO T I (P-530), L TON, DC 2 CT (3150-0	IS, FO THE RI J.S. NI 0555, 0104),	ORWAI ECOR UCLE AND OFFI	RD DS AR TO
FACILITY NAME (1)	DOCKET NUMBER (2)			NUMBER (د		AGE	(3)	
	• '	YEAR	SE SE	OUENTIA	- 333	REVISION				
D. C. Cook Nuclear Plant	, Unit 1 0 5 0 0 3 1 5	590	_ (0 0 4	_	0 2	0 3	OF	0	6
TEXT (If more space is required, use additional NRC For	n 388A's/ (17)						, <u>, , , , , , , , , , , , , , , , , , </u>	v		

Description of Event (Continued)

It was not until 1930 hours while reviewing computer event printouts of a selected component operations that it was recognized that the CEQ fan had been started and operated for five seconds.

Between 1945 on May 8, 1990, and 0505 on May 9, 1990, several containment ventilation alignments were attempted as a means to set up a differential pressure between lower containment and the ice condenser, which would cause closure of the passive lower ice condenser inlet doors. These attempts were not successful and a reduction in power to less than 10 percent was required to allow containment entry and manual closure of the doors. The power reduction was commenced at 0516, with the initial power at 70 percent.

It was determined that it would be necessary to tape the inlet doors closed for a short period to allow buildup of the cold air head, which normally keeps the doors closed. Although the ice condenser inlet doors were not closed as required by TS 3.6.5.3, it was believed that they could perform their design function. The taping of the doors, however, removed assurance that the doors would open with less than or equal to 675 inch pounds of force as required by the surveillance requirement 4.6.5.3.1.b.2. Although the action statement of TS 3.6.5.3 allows up to 14 days of operation with one or more inlet doors inoperable, it was decided to voluntarily restrict operation with the inlet doors taped closed, to the time limits imposed by TS 3.0.3. An update call to the NRC on this decision was made at 1048 on May 9, 1990.

The reactor was brought to eight percent power at 1125 on May 9, 1990. Lower containment entry was then made to close the inlet doors and temporarily tape them closed. The time limits of TS 3.0.3 were entered at 1130, prior to taping of the first door. It was found that five pairs of lower ice condenser inlet doors (bays 1, 4, 10, 15, and 17) were held open approximately 1" to 6" by ice formation. The ice, which prevented door closure, was described as "soft ice" by personnel who removed the ice and closed the doors. It was the opinion of these persons that the "soft ice" would not have significantly hindered opening of the inlet doors were taped at approximately 1200.

Prior to closing and taping the lower inlet doors, the personnel in the containment inspected the doors and seals to ensure that there was no ice or moisture which would inhibit operability of the doors. After the cold air head was established in the ice condenser, the tape was removed from the doors. After verifying that all the doors indicated closed and independently

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LICENSEE EVENT REPO TEXT CONTINUATIO	APPROVED OMB NO. 3150 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO INFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN ESTIMA AND REPORTS MANAGEMENT BRANCH (REGULATORY COMMISSION, WASHINGTO THE PAPERWORK REDUCTION PROJECT OF MANAGEMENT AND BUDGET, WASHIN	COMPLY WTH THIS 50.0 HRS. FORWARD TIE TO THE RECORDS P-5301, U.S. NUCLEAR IN, DC 20555, AND TO 13150-01041, OFFICE	
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
D. C. Cook Nuclear Plant, Unit 1	0 5 0 0 3 1 5	YEAR SEQUENTIAL REVISION 9 0 0 0 4 0 2	
TEXT (If more space is required, use additional NRC Form 366A's) (17)	· · · · · · · · · · · · · · · · · · ·		

Description of Event (Continued)

verifying removal of the tape, the inlet doors were declared operable at 1248. Although the unit was in the condition for greater than one hour, no power reduction was commenced. This was justified by the fact that the unit was already less than 10 percent power and a shutdown within six hours could be easily achieved.

Although the ice condenser had been considered inoperable since 2129 on May 8, 1990, when the maximum ice bed temperature exceeded 27°F (TS 3.6.5.1), it was decided to raise power to a stable value of 20 percent while reviewing the ice condenser conditions after the inlet doors were closed. This power level allowed automatic feedwater control and transfer of auxiliary power to the generator (normal source). The power increase began at 1310. An update call was made to the NRC a 1334.

A Plant Nuclear Safety Review Committee meeting was held at 1504 on May 9, 1990, to review the results of the ice condenser inspection and the engineering evaluation of ice condenser operability. It was concluded that the amount of ice loss was approximately 550 lbs and that the remaining ice condenser ice inventory was adequate to meet the requirements of TS 3.6.5.1. It was further determined that the ice condenser temperatures were decreasing at an acceptable rate to ensure the maximum ice bed temperature would be below 27°F within 48 hours from 2129 on May 8, 1990. The decision was made to increase power to 49 percent based on these conditions. An update call was made to the NRC at 1625 on May 9, 1990.

The ice bed temperatures were verified to be less than or equal to 27°F at 1325 on May 1990 and the ice condenser was declared operable. A power increase of five percent per hour was started at 1438. The power increase was stopped at the pre-event power level at 2058 on May 10, 1990.

<u>Cause of Event</u>

The cause of this event was determined to be an inadequate work practice in that the RO visually located the right control switch, but looked away from the control panel while actually reaching for, and grasping, the control switch. The RO did perform a self-check prior to giving the control switch an intentional movement.

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NRC FORM 366A U.S. (639)	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315 EXPIRES: 4/30/92	-
LICENSEE EVENT REPORT	(LER)	ESTIMATED BURDEN PER RESPONSE T	O COMPLY WTH THIS
TEXT CONTINUATION		COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH	ATE TO THE RECORDS (P-530), U.S. NUCLEAR
	•	REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI	T (3150-0104), OFFICE NGTON, DC 20503
ACILITY 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	910 - 01014 - 012	015 05 010
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r	•	٧	; #
• ,		,	
<u>Cause of Event</u> (Continued)			
<u>odube or nvene</u> (concinded)	,		
The following factors also influe	enced the RO's perfo	rmance:	a a
o Insufficient degree of atte	ention applied - the	RO did not have himse	lf '
at a sufficient level of at			
o Perceived pressure to compl	ete the task - alth	ough there was no rush	*0
complete the surveillance,	the RO experienced	some self-imposed pres	sure '
to complete the surveilland	e to avoid requirin	g the next shift to fi	nish
it.			×
			•
<u>Analysis of Event</u>			
While this event was initially re	ported in accordanc	e with 10 CFR 50.72 as	an
ESF actuation, subsequent detaile	ed review of the Ice	Condenser System	
(including the sequence necessary function) and the reporting requi	rements/guidance as	documented in	
10 CFR 50.73 and NUREG 1022 concl	uded that the subje	ct event did not	1
constitute the actuation of the i	ce condenser - an E	SF System at D. C. Cool	k.
The ice condenser was considered	inoperable from 212	9 on May 8, 1990, when	the
ice bed temperature was determine	d to have exceeded	the TS limit, until 13:	25
on May 10, 1990, when the ice bed limit.	l temperature was re	stored to within the T	S
The review of this event determin	ed that during the o	event the ice condense	r
remained capable of performing it	s design function.	Since the ice condense	er
was capable of performing its des	ign function, it is	concluded that the eve	ent
did not constitute an unreviewed 10 CFR 50.59(a)(2), nor did it ad	sarety question as a versely impact the l	derined by health and safety of the	he
public.	and a second support one i	nearon and sarety of th	
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NRC FORM 366A U.S. (689)	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 31	50-0104
	(I FR)	EXPIRES: 4/30/9 ESTIMATED BURDEN PER RESPONSE INFORMATION COLLECTION REQUEST	2
TEXT CONTINUATION	\[]}	COMMENTS REGARDING BURDEN ESTIN AND REPORTS MANAGEMENT BRANCH	MATE TO THE RECORDS 1 (P-530), U.S. NUCLEAR
		REGULATORY COMMISSION, WASHING THE PAPERWORK REDUCTION PROJECTION PROJECTI PROVINCI PROJECTION PROJECTION PROJECTI PROVID	CT (3150-0104), OFFICE
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3) ±
• · · ·		YEAR SEQUENTIAL REVISION	
D. C. Cook Nuclear Plant, Unit 1	0 5 0 0 0 3 1 5	9 0 - 0 0 4 - 0 12	06 OF 0 6
TEXT (If more space is required, use additional NRC Form 366A's) (17)		·	
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Corrective Actions	4		- اه بر
The ice condenser was restored to	n operability by also	sing the lower for	•
condenser inlet doors and restored the TS limits.	ing the ice condenser	temperature to withi	.n
The required work prostings to	*	a aimiles see ·	
The required work practices to pr discussed with the involved RO.	A comprehensive self	a similar event were S-checking program wil	1 be
fully implemented by November 15,	, 1991.		
			•
Failed Component Identification	d'	*	
None.	•		v
		n an	ų
<u>Previous Similar Events</u>			2
There were no previous similar ev	vents which involved	opening of the lower	ice
condenser inlet doors due to inad	lvertent CEQ fan oper	ation.	
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