

# CATEGORY 1

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9710170032 DOC. DATE: 97/10/10 NOTARIZED: NO DOCKET #  
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315  
 AUTH. NAME. AUTHOR AFFILIATION  
 SCHOEPP, P. 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 97-021-00: on 970910, discovered potential for single active failure to occur during switchover from RWST suction to recirculation sump suction. Cause indeterminate. Revised EOPs to preclude single active failure. W/971010 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

### NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD3-3 PD	1 1	HICKMAN, J	1 1
INTERNAL:	AEOD/SPD/RRAB	2 2	AEOD/SPD/RRAB	1 1
	FILE CENTER	1 1	NRR/DE/ECGB	1 1
	NRR/DE/EEEB	1 1	NRR/DE/EMEB	1 1
	NRR/DRCH/HHFB	1 1	NRR/DRCH/HICB	1 1
	NRR/DRCH/HOLB	1 1	NRR/DRCH/HQMB	1 1
	NRR/DRPM/PECB	1 1	NRR/DSSA/SPLB	1 1
	NRR/DSSA/SRXB	1 1	RES/DET/EIB	1 1
	RGN3 FILE 01	1 1		
EXTERNAL:	L ST LOBBY WARD	1 1	LITCO BRYCE, J H	1 1
	NOAC POORE, W.	1 1	NOAC QUEENER, DS	1 1
	NRC PDR	1 1	NUDOCS FULL TXT	1 1

NOTE TO ALL "RIDS" RECIPIENTS:  
 PLEASE HELP US TO REDUCE WASTE. TO HAVE YOUR NAME OR ORGANIZATION REMOVED FROM DISTRIBUTION LISTS OR REDUCE THE NUMBER OF COPIES RECEIVED BY YOU OR YOUR ORGANIZATION, CONTACT THE DOCUMENT CONTROL DESK (DCD) ON EXTENSION 415-2083

FULL TEXT CONVERSION REQUIRED  
 TOTAL NUMBER OF COPIES REQUIRED: LTTR 24 ENCL 24

C  
A  
T  
E  
G  
O  
R  
Y  
  
1  
  
D  
O  
C  
U  
M  
E  
N  
T

Indiana Michigan  
Power Company  
Cock Nuclear Plant  
Cock Place  
Bloomington, WI 49106



October 10, 1997

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

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:

97-021-00

Sincerely,

A handwritten signature in cursive script, appearing to read 'A. A. Blind'.

A. A. Blind  
Site Vice President

/mbd

Attachment

c: A. B. Beach, Region III  
E. E. Fitzpatrick  
P. A. Barrett  
S. J. Brewer  
J. R. Padgett  
D. Hahn  
Records Center, INPO  
NRC Resident Inspector

9710170052 971010  
PDR ADOCK 05000315  
S PDR





## LICENSEE EVENT REPORT (LER)

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)  
Donald C. Cook Nuclear Plant - Unit 1DOCKET NUMBER (2)  
50-315

Page 1 of 1

## TITLE (4)

Interim LER - Potential Single Active Failure during Switchover from RWST Suction to Recirculation Sump Suction Could Result in Unanalyzed Condition and the Prevention of Fulfillment of a Safety Function

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 NAME	DOCKET NUMBER
09	10	97	97	-- 021 --	00	10	10	97	Cook Unit 2	50-316
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
5			20.2201(b)			20.2203(a)(3)(i)			50.73(a)(2)(iii)	73.71(b)
POWER LEVEL (10)			20.2203(a)(1)			20.2203(a)(3)(ii)			50.73(a)(2)(iv)	73.71
0			20.2203(a)(2)(i)			20.2203(a)(4)			X 50.73(a)(2)(v)	OTHER
			20.2203(a)(2)(ii)			50.36(c)(1)			50.73(a)(2)(vii)	(Specify in Abstract below and in Text, NRC Form 366A)
			20.2203(a)(2)(iii)			50.36(c)(2)			50.73(a)(2)(viii)(A)	
			20.2203(a)(2)(iv)			50.73(a)(2)(i)			50.73(a)(2)(viii)(B)	
			20.2203(a)(2)(v)			X 50.73(a)(2)(ii)			50.73(a)(2)(x)	

## LICENSEE CONTACT FOR THIS LER (12)

NAME  
Mr. Paul Schoepf, Safety Related Mechanical Engineering SuperintendentTELEPHONE NUMBER (Include Area Code)  
616/465-5901, x2408

## 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)

X YES	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
			11	17	97

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

On September 10, 1997, with both units in Mode 5, cold shutdown, it was determined that a single active failure during an accident while performing switchover of the Emergency Core Cooling System (ECCS) pumps from the Refueling Water Storage Tank (RWST) to the recirculation sump could result in loss of all high and medium head injection. This was determined to be reportable as an unanalyzed condition under 10CFR50.72(b)(2)(i), and as a condition that could have prevented the fulfillment of a safety function under 10CFR50.72(b)(2)(iii). An ENS notification was made at 1919 hours the same day. This interim LER is being submitted under 10CFR50.73(a)(2)(ii) and 10CFR50.73(a)(2)(v).

The Emergency Operating Procedures (EOPs) for transfer to cold leg recirculation required the West Residual Heat Removal (RHR) pump be the first pump switched from the RWST to the recirculation sump. Once this was accomplished, the Safety Injection (SI) pumps' suction and Charging Pumps' (CCPs) suction are then switched from the RWST suction to the discharge of the West RHR pump. If the West RHR pump were to fail at this point, when all CCPs and SI pumps are being supplied from the West RHR pump discharge, prior to the East RHR pump suction being transferred from the RWST to the recirculation sump, all CCP and SI pumps would also have failed due to loss of suction. This would result in the loss of all high and medium head injection, with only the flow from the East RHR pump available for injection into the RCS.

The EOPs are being revised to preclude the situation where a single active failure would cause a redundant train from being impacted. This will be accomplished by transfer of both RHR pumps prior to establishing suction for the SI pumps and CCPs. An update to this interim LER will be submitted by November 17, 1997, after completion of the investigation and analysis of this event.

