

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9710210104 DOC.DATE: 97/10/16 NOTARIZED: NO DOCKET #
 FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
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 MANGAN.P. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 97-023-00:on 970916,design change introduces possibility
 of single failure which could result in loss of both trains
 of ESF ventilation sys.Caused by degraded condition found
 while reactor was shutdown.Update submitted.W/9710166 ltr.

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



October 16, 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:

97-023-00

Sincerely,

A handwritten signature in dark ink, 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

IE224

9710210104 971016
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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 - Design Change Introduces Possibility of Single Failure Which Could Result in Loss of Both Trains of ESF Ventilation

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	16	97	97	-- 023 --	00	10	16	97	Cook Unit 2	50-316
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.73(a)(2)(iii) (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(b)	
0			20.2203(a)(2)(i)		20.2203(a)(4)		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

TELEPHONE NUMBER (Include Area Code)

Mr. Pat Mangan, Mechanical Design Supervisor

616/697-5198

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)

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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 16, 1997, with both units in cold shutdown, it was discovered that a design change installed on Units 1 and 2 between December, 1996 and August, 1997, introduced the possibility of a single failure which could result in the loss of both trains of the ESF ventilation system. This was determined to be reportable under 10CFR50.72(b)(2)(i), as a degraded condition found while the reactor was shutdown which resulted in an unanalyzed condition, and an ENS phone call was made at 1620 hours that same day. This interim LER is being submitted under 10CFR50.73(a)(2)(ii), as an unanalyzed condition.

The design change was installed to upgrade the bypass dampers to lessen bypass flow around the ESF ventilation system charcoal filter trains. System configuration is such that the bypass dampers are normally open, and would fail closed, and the inlet dampers are normally closed, and would fail open. Prior to installation, both the inlet and bypass dampers utilized the 20 psig air header to supply their actuators. The new leaktight bypass dampers require higher control air pressure to the bypass damper actuator, which resulted in the actuators being transferred to the 85 psig air header while the inlet dampers remained on the 20 psig header. If the 85 psig header had been lost while the 20 psig header remained intact, the bypass dampers would close without the inlet dampers opening, thus blocking the flow path through the ventilation units. As part of the system design is to provide cooling of Emergency Core Cooling System equipment rooms, this represents an unanalyzed condition.

A design change to provide actuator air to the inlet dampers from the 85 psig header via regulators is currently being installed. This will be completed prior to unit startup. An update to this interim LER will be submitted by November 17, 1997, after completion of the investigation and evaluation of this event.