CATEGORY 1

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ACCESSION NBR:9711040027 DOC.DATE: 97/10/27 NOTARIZED: NO DOCKET #
FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
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RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 97-027-00:on 970925,determined potential failure of control air headers due to overpressurization.Installed safety valves on all regulated air headers & continuing analysis on RHR heat exchanger valves.

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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

INDIANA MICHIGAN POWER

October 27, 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:

97-027-00

Sincerely,

John R. Sampson for

A. A. Blind
Site Vice President

/mbd

Attachment

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

NRC FORM 366 (5-92) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95

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.

LICENSEE EVENT REPORT (LER)

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

TITLE (4)
Interim LER - Potential for Overpressurization of the Control Air Headers Determined to be Unanalyzed Condition

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	25	97	97	-- 026 --	00	10	27	97	Cook Unit 2	50-316
									FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	5
POWER LEVEL (10)	0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)

	20.2201(b)		20.2203(a)(3)(i)		50.73(a)(2)(iii)		73.71(b)
	20.2203(a)(1)		20.2203(a)(3)(ii)		50.73(a)(2)(iv)		73.71
	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. James Benes, Mechanical Systems	616/465-5901, X2862

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

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

On September 25, 1997 it was determined that the potential failure of the control air headers due to overpressure constituted an unanalyzed condition. This was determined reportable under 10CFR50.72(b)(2)(i), and an ENS notification was made at 1011 hours on September 25, 1997. This interim LER is being submitted under 10CFR 50.73(a)(2)(ii), as an unanalyzed condition.

During the recent Architectural Engineering inspection a question was raised regarding the lack of overpressure protection on the 20, 50, & 85 psig control air headers. The specific concern is that there may be the potential for common mode failure of both trains of safety related equipment served by the headers should an overpressure condition occur due to a regulator failure.

Analysis of the 20, 50 and 85 psig headers has been completed. The results of the analysis indicate that overpressurization of the 50 and 85 psig headers would not have had any safety significance. Overpressurization of valves on these headers fell into the following categories: 1) the valves are normally in the vented position and would not have seen the excessive air pressure, 2) the valves are allowed a one-time pressure excursion to 125 psig by the manufacturer, and 3) the diaphragm of the valve actuator would have failed resulting in the valve going to its safe position. Some valves going to their safe position may have resulted in a unit trip similar to the loss of control air. Overpressurization of the 20 psig header could have resulted in safety significant consequences. A unit trip would have been likely and there would be the potential for partial mispositioning of both trains of the RHR heat exchanger outlet valves, resulting in degradation of the RHR system for the duration of the overpressure event.

In conclusion, it was determined that the potential overpressurization of the 50 and 85 psig headers would have resulted in no safety significance. Overpressurization of the 20 psig header would have been safety significant due to the potential degradation of both trains of RHR for the overpressure event duration. Safety valves have been installed on all regulated air headers. Analysis is continuing to determine the effect on the RHR heat exchanger valves, including expected operator response. An update to this interim LER will be issued by November 17, 1997.