

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9805190224 DOC. DATE: 98/05/11 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
 AUTH. NAME AUTHOR AFFILIATION
 FINISSI, M. Indiana Michigan Power Co.
 SAMPSON, J.R. Indiana Michigan Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-021-01: on 980311, determined that oil pans not installed on RCP motors resulted in App R noncompliance. Caused by failure to fully implement App R requirements. Will upgrade oil leak collection sys. W/980511 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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Indiana Michigan
Power Company
Cock Nuclear Plant
One Cock Place
Bridgman, MI 49106



May 11, 1998

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:

98-021-01

Sincerely,

J. R. Sampson
Site Vice President

/mbd

Attachment

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

9805170224 980511
PDR ADDCK 05000315
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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

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TITLE (4)

Oil Drip Pans Not Installed on Reactor Coolant Pump Motors Results in Appendix R Noncompliance

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
03	11	98	98	-- 021 --	01	05	11	98	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(c)	
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)(1)		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. Mike Finissi, Electrical Systems Manager

TELEPHONE NUMBER (Include Area Code)

616/465-5901, x2803

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)

YES

(If yes, complete EXPECTED SUBMISSION DATE).

NO

EXPECTED SUBMISSION DATE (15)

MONTH

DAY

YEAR

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

On March 11, 1998, with both Unit 1 and Unit 2 in Mode 5, it was determined that potential oil leakage sites existed on the Reactor Coolant pumps (RCPs) that had not been equipped with an oil collection system. 10CFR50, Appendix R, Section III.O requires RCPs to be equipped with an oil collection system capable of collecting lube oil from potential oil leakage sites. The intent of the requirement is to reduce the fire hazard due to possible oil contact with ignition sources. This LER is therefore submitted in accordance 10CFR50.73(a)(2)(ii)(B), as a condition outside the design basis.

The root cause of this condition was the failure to fully implement the requirements of 10CFR50, Appendix R. To correct this condition, the oil leak collection system for the drain plug on the RCP upper oil cooler shell will be upgraded. Additional potential oil leak sites will be evaluated and either an exemption will be requested or upgrades made to the oil collection system as applicable.

This condition has been evaluated to determine the safety significance of the condition. Based on a lack of easily reached components with a surface temperature high enough to ignite the oil, it has been determined that condition has no safety significance, and therefore, the health and safety of the public was not jeopardized.

LICENSEE EVENT CONTINUATION

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 (MNB 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)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
Cook Nuclear Plant - Unit 1	50-315	YEAR	SEQUENTIAL	REVISION	2 of 3
		98	- 021 -	01	

TEXT (if more space is required, use additional NRC Form 366A's) (17)

Condition Prior to Event

Unit 1 was in Mode 5, Cold Shutdown.

Unit 2 was in Mode 5, Cold Shutdown

Description of Event

On March 11, 1998, it was identified that potential oil leakage sites existed on the Reactor Coolant pumps (RCPs) that had not been equipped with an oil collection system. 10CFR50, Appendix R, Section III.O requires RCPs to be equipped with an oil collection system capable of collecting lube oil from potential oil leakage sites. The leakage points to be protected shall include plugs. The intent of the requirement is to reduce the fire hazard due to possible oil contact with ignition sources.

Potential leakage sites were identified that had not previously been explicitly identified, or discussed as an exemption.

In Unit 1 and Unit 2, one RCP motor has a drain plug on the upper oil cooler shell, oil side. No catch pan had been installed under this drain plug. In Unit 1 and Unit 2, the three other RCP motors have drain valves on the upper oil cooler shell. No catch pan has been installed in these locations.

Cause of Event

The root cause for this condition is the failure to fully implement the requirements of 10CFR50, Appendix R. The design for the RCP lubricating oil collection system was already in progress at the time that Appendix R was implemented. As a result of Appendix R, the system was walked down, but these potential leakage sites were either not identified, or the intention was to request an exemption.

An exemption from certain Appendix R Section III.O requirements was granted by the NRC on December 23, 1983. However, the exemption request, and the associated NRC Safety Evaluation Report, did not address the issue of drip pans under all possible oil leakage sites. No documentation is available to establish that the exemption granted by the NRC was intended to cover this design variance from Appendix R requirements.

Analysis of Event

This LER is submitted in accordance with 10CFR50.73(a)(2)(ii)(B), as a condition that resulted in the nuclear power plant being outside its design basis.

There are locations on the RCP motors in both units where oil may not be captured by the oil collection system. This does not significantly compromise plant safety because there is no direct leak path to hot surfaces. Metal non-combustible mirror insulation is installed on Reactor Coolant System piping proximate to the reactor coolant pump. The lube oil has a flash point of approximately 425° and the mirror insulation maximum surface design temperature is approximately 140°. Therefore, contact of the oil with the surface of the insulation will not result in ignition of the oil. As only non-combustible mirror insulation is used, there is no fibrous insulation to become oil soaked and support a combustion process. There are no known ignition sources on the floor. Additionally, each RCP is provided with a manual water spray sprinkler system which was installed to satisfy the requirements of Appendix A to the BTP APCS 9.5-1.

It has been concluded that this condition has no safety significance, and therefore, the health and safety of the public was not adversely impacted.

LICENSEE EVENT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Corrective Action

The oil leak collection system for the drain plug on the RCP upper oil cooler shell will be upgraded by the end of the second refueling following restart. Additional potential oil leak sites will be evaluated and either exemption will be requested or upgrades made to the oil collection system as applicable.

Failed Component Identification

None

Previous Similar Events

315/97-028-00

