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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8905100086 DOC.DATE: 89/04/28 NOTARIZED: NO DOCKET #
 FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
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 POSTLEWAIT,T.K. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 SMITH,W.G. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-005-00:on 890330,inoperable containment isolation
 valve for component cooling water sys.

W/8 ltr.

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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) D. C. Cook Nuclear Plant, Unit-1										DOCKET NUMBER (2) 0 5 0 0 0 3 1 5										PAGE (3) 1 OF 0 2																															
TITLE (4) Inoperable Containment Isolation Valve for Component Cooling Water System																																																			
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 NAMES																																	
0 3		3 0		8 9		8 9		0 0 5		0 0		0 4		2 8		8 9		DOCKET NUMBER(S) 0 5 0 0 0																																	
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OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																																																	
6		20.402(b)										20.406(c)										50.73(a)(2)(iv)										73.71(b)																			
POWER LEVEL (10)		0 0 0										20.406(a)(1)(i)										50.36(c)(1)										50.73(a)(2)(v)										73.71(c)									
		20.406(a)(1)(ii)										50.36(c)(2)										50.73(a)(2)(vi)										OTHER (Specify in Abstract below and in Text, NRC Form 365A)																			
		20.406(a)(1)(iii)										X 50.73(a)(2)(i)										50.73(a)(2)(vii)(A)																													
		20.406(a)(1)(iv)										50.73(a)(2)(ii)										50.73(a)(2)(vii)(B)																													
		20.406(a)(1)(v)										50.73(a)(2)(iii)										50.73(a)(2)(viii)																													
LICENSEE CONTACT FOR THIS LER (12)																																																			
NAME												TELEPHONE NUMBER																																							
T. K. Postlewait - Technical Engineering Superintendent												6 1 6 4 6 5 - 5 9 0 1																																							
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																																			
CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPROS		CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPROS																																									
X	C 1 C	S 1 H 1 V	L 1 2 0 0	Y																																															
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)																																							
X YES (If yes, complete EXPECTED SUBMISSION DATE)												0 6 0 9 8 9																																							

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

On March 30, 1989, with Unit 1 in Mode 6 (refueling), during surveillance testing, Containment isolation valve (1-CCM-458) would not close as required by Technical Specification 3.6.3.1. This valve isolates the Component Cooling Water Supply to the Reactor Coolant Pump Coolers.

Inspection of the valve operator gearbox revealed that the threads on the worm gear had been stripped and the driven gear was also damaged. The valve is infrequently operated; therefore, the failure could not be attributed to severe service. The point of failure was not at either end of stem travel; therefore, overtightening was ruled out. It could not be determined what caused the gear failure, however a flaw in the gear tooth is the most likely cause.

The Safety Evaluation for this event is not complete at this time. An updated report will be submitted by June 9, 1989, to include the Safety Evaluation findings.

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PDR ADOCK 05000315
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
D. C. Cook Nuclear Plant, Unit-1	0 5 0 0 0 3 1 5	8 9	- 0 0 5	- 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 368A's) (17)

Description of Event:

On March 30, 1989, with Unit 1 in Mode 6 (refueling), during surveillance testing, Containment isolation valve (1-CCM-458) (EIIS:SHV) would not close as required by Technical Specification 3.6.3.1. This valve isolates the Component Cooling Water Supply (EIIS:CC) to the Reactor Coolant Pump Coolers.

During valve operation, 1-CCM-458 would partially close until the torque switch sensed an excessive torque condition. Manual operation of the valve was possible but difficult.

Cause of Event:

Inspection of the valve operator gearbox revealed that the threads on the worm gear had been stripped and the driven gear was also damaged. The valve is infrequently operated; therefore, the failure could not be attributed to severe service. The point of failure was not at either end of stem travel; therefore, overtorquing was ruled out. It could not be determined what caused the gear failure, however a flaw in the gear tooth is the most likely cause.

Analysis of Event:

The Safety Evaluation for this event has not been completed at this time. An updated report will be submitted by June 9, 1989, to include the Safety Evaluation findings.

Corrective Actions:

The valve operator was repaired by replacing the defective components.

Failed Component Identification:

Plant I.D. No: 1-CCM-458 Valve Operator
Manufacturer: Limitorque Corporation
Model No: SMB00
EIIS Code: L200

Previous Similar Events:

There were no similar previous events.

Indiana Michigan
Power Company
Cook Nuclear Plant
P.O. Box 458
Bridgman, MI 49106
616 465 5901



April 28, 1989

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Operating License DPR-58
Docket No. 50-315

Document Control Manager:

In accordance with the criteria established by 10 CFR 50.73
entitled Licensee Event Reporting System, the following
report is being submitted:

89-005-00

Sincerely,

A handwritten signature in dark ink, appearing to read 'W. G. Smith, Jr.'.

W. G. Smith, Jr.
Plant Manager

WGS:clw

Attachment

cc: D. H. Williams, Jr.
A. B. Davis, Region III
M. P. Alexich
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