

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Kewaunee Nuclear Power Plant DOCKET NUMBER (2) 0 5 0 0 0 3 0 5 PAGE (3) 1 OF 0 2

TITLE (4) Redundant Containment Isolation Valves With Excessive Leakage

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		DOCKET NUMBER(S)								
0	4	1	6	8	4	8	4	0	0	6	0	5	0	0	0	0			
0	4	1	6	8	4	0	0	0	5	1	6	8	4	0	5	0	0	0	0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 0	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)						
	20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)							
	20.405(a)(1)(iv)	X 50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)								

LICENSEE CONTACT FOR THIS LER (12)

NAME Richard Pulec - Plant Regulatory Performance Supervisor TELEPHONE NUMBER 411 14 318 181-12 151610

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC
B	CIB	ISV	M1120	Y	B	CIB	ISV	M1120	Y
B	CIB	PIC/O	W3115	Y					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) X NO EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR

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

On April 16, 1984 with the plant in the refueling operating mode, testing was in progress to determine containment isolation valve leakage rates per 10 CFR 50, Appendix J. Three isolation valves (LD-4A, LD-4B, and LD-6) were found to have leakage rates greater than the upper measuring limit of the local leak rate tester. Valve LD-6 is the redundant containment isolation valve for the parallel containment isolation valves LD-4A, LD-4B, and LD-4C. Corrective actions taken were: 1) replacement of the seat ring gaskets in valves LD-4A and LD-4B, and 2) adjustment of the stroke on valve LD-6.

To prevent recurrence, a technical evaluation will be performed reviewing this and previous failures of the LD-4 series valves to determine proper corrective action. No further action is considered necessary for valve LD-6.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Kewaunee Nuclear Power Plant	0500030584	—	006	—00	02	OF 02

TEXT (If more space is required, use additional NRC Form 365A's) (17)

On April 16, 1984 with the plant in the refueling operating mode, containment isolation valve leakage rate testing was being performed per 10 CFR 50, Appendix J. Chemical and Volume Control System letdown isolation valves (ISV), LD-4A, LD-4B, and LD-6, were found to have leakage rates greater than the upper measuring limit (20 standard liters per minute) of the local leak rate tester. Valve LD-6 is the redundant containment isolation valve for the parallel containment isolation valves LD-4A, LD-4B, and LD-4C. Work requests were initiated to determine the cause of the excessive leakage.

Valves LD-4A and LD-4B (both Masoneillan Model 38-2072i) were found to have degraded seat ring gaskets (type 304SS and asbestos) allowing seat ring bypass flow. The valves were repaired, retested, and returned to service April 21, 1984.

The air operated actuator (Worthington Controls No. 18) on valve LD-6 was found to be out of adjustment. A review of system work requests since the last acceptable leakage rate test did not reveal any potential reasons for this condition. The valve stroke was adjusted; the valve was retested and returned to service April 21, 1984.

Failure of redundant containment isolation valves can cause an increase in the containment vessel leakage rate with a resulting increase in predicted offsite doses. Following a LOCA, leakage through the letdown isolation valves would be filtered by the shield building ventilation system or the auxiliary building special ventilation system. Both systems provide filtration with high efficiency particulate air filters and impregnated activated carbon cell absorbers.

The investigation into the cause of failure for LD-4 series valves is continuing. No further action is considered necessary for valve LD-6. Excessive leakage of containment isolation valves has previously been reported in LER 83-18 and LER 79-21.

WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

May 16, 1984

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Reportable Occurrence 84-006-00

In accordance with the requirements of 10 CFR 50.73 "Licensee Event Report System", the attached Licensee Event Report for reportable occurrence 84-006-00 is being submitted.

Very truly yours,

A handwritten signature in cursive script, appearing to read "C. W. Giesler".

C. W. Giesler
Vice President - Power Production

RPP/jks

Attach.

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