

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Quad-Cities Nuclear Power Station, Unit One										DOCKET NUMBER (2) 0 5 0 0 0 2 5 4				PAGE (3) 1 OF 0 3		
TITLE (4) Unit One Main Steam Isolation Valves Failed Local Leak Rate Tests																
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 3	1	6	8	4	8 4	0 0	4	0 0	0 4	0 6	8	4	0 5 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)		20.402(b)				20.406(c)				50.73(a)(2)(iv)				73.71(b)		
0 0 0		20.406(a)(1)(i)				50.38(e)(1)				50.73(a)(2)(v)				73.71(c)		
		20.406(a)(1)(ii)				50.38(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)						
		20.406(a)(1)(iv)				XX 50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)						
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME Alex Misak										TELEPHONE NUMBER						
										AREA CODE 3 0 9 6 5 4 - 1 2 1 4 1						
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						
X	S	B	I	S	V	N	4	1	7	Y						
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
X YES (If yes, complete EXPECTED SUBMISSION DATE)												NO		0 9	0 1	8 4

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

On March 16, 1984, five Main Steam Isolation Valves on Unit One were found to leak in excess of the 11.5 SCFH limit given in Technical Specification 3.7.A.2.-a.3. The excessive leakages for valves A0 1-203-1B, A0 1-203-2B, A0 1-203-1C, A0 1-203-2C, and A0 1-203-2D were identified during Local Leak Rate Testing performed while Unit One was shutdown for End of Cycle Seven Refueling. Causes for the excessive leakages have not yet been determined. Repairs will be completed and leakages brought to within Technical Specification requirements prior to Cycle Eight startup. A supplemental report will be issued at that time.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Unit One Quad-Cities Nuclear Power Station	DOCKET NUMBER (2) 0 5 0 0 0 2 5 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	- 0 0 4	- 0 0	0 2	OF	0 3

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

Event Description

At 1030 hours on March 16, 1984, Main Steam Isolation Valves AO 1-203-1B, AO 1-203-2B, AO 1-203-1C, AO 1-203-2C, and AO 1-203-2D were found to leak in excess of the 11.5 Standard Cubic Feet Per Hour (SCFH) limit specified in Technical Specification 3.7.A.2.a.3. Unit One was shutdown for End of Cycle Seven Refueling and maintenance when the excessive leakages were discovered during the performance of Local Leak Rate Testing. The leakages for the individual valves are as follows:

<u>Valve</u>	<u>Leakage</u>
AO 1-203-1B	34.5 SCFH
AO 1-203-2B	70.3 SCFH
AO 1-203-1C	31.7 SCFH
AO 1-203-2C	416.7 SCFH
AO 1-203-2D	466.2 SCFH

For each line with excessively leaking valves, the inboard valve had the lower leakage and would limit the through-line leakage. The through-line leakage for each line is as follows:

<u>Line</u>	<u>Through-Line Leakage</u>
B	34.5 SCFH
C	31.7 SCFH
D	1.7 SCFH

The through-line leakage of the D line is 1.7 SCFH due to the fact that tests showed the AO 1-203-1D valve leaked 1.7 SCFH. Because this line's leakage is this small, the amount of leakage during an accident would not be excessive.

The through-line leakages for the B and C lines are greater than the 11.5 SCFH limit for any one valve. However, during testing, the inboard valves, which are the limiting valves in each case, are pressurized such that the pressure forces the disc away from the seat. During an accident, Reactor pressure would act in the opposite direction and force the disc into the seat tighter, thereby reducing the leakage to a value lower than what is indicated from the tests.

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	— 0 0 4	— 0 0	0 3	OF	0 3

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

Cause

The causes of these excessive leakages have not yet been determined. A supplemental report will be submitted following repair of the valves detailing the causes of the leakages.

Corrective Action

No corrective action has been taken as of this date. All repairs will be completed prior to unit startup, and a supplemental report will be submitted at that time describing the repairs and "as-left" leakages.



Commonwealth Edison

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Cordova, Illinois 61242
Telephone 309/654-2241

NJK-84-128

April 6, 1984

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

Reference: Quad-Cities Nuclear Power Station
Docket Number 50-254, DPR-29, Unit One

Enclosed please find Licensee Event Report Number (LER) 84-004
for Quad-Cities Nuclear Power Station.

This report is submitted to you in accordance with the requirements of the Code of Federal Regulations, Title 10, Part 50.73(a)(2)(ii), as a condition that resulted in the principle safety barriers being degraded.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

L. J. Kalivianakis

N. J. Kalivianakis
Station Superintendent

NJK:PDK/bb

Enclosure

cc B. Rybak
A. Morrongiello
INPO Records Center
NRC Region III

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