

LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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7	8	9	LICENSEE CODE					14	LICENSE NUMBER										25	LICENSE TYPE							30	CAT					58

REPORT SOURCE L 6 0 5 0 0 0 2 5 4 7 0 1 1 9 7 9 8 0 2 1 6 7 9 6

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

While performing procedure QTS 100-18, HPCI Steam Exhaust Local Leak Rate Test, the

1-2301-45 check valve leak rate was found to be 190.3 SCFH. This is in excess of the

18.36 SCFH allowable limit as specified by Technical Specification 4.7.A.2.i.2.b.

Leakage through the 1-2301-45 check valve would not render the HPCI System inoperable.

In addition, in the event of high suppression chamber pressure, the manual stop

check valve, 1-2301-74, would act as a backup to the 1-2301-45 check valve.

SYSTEM CODE S E 11		CAUSE CODE E 17		CAUSE SUBCODE B 13		COMPONENT CODE V A L V E X 11				COMP. SUBCODE C 15		VALVE SUBCODE D 18	
LER/RO REPORT NUMBER 17		EVENT YEAR 7 9 21 22		SEQUENTIAL REPORT NO. 0 0 3 24 26		OCCURRENCE CODE 0 3 28 29		REPORT TYPE L 30		REVISION NO. 0 32			
ACTION TAKEN A 18		FUTURE ACTION Z 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD 2 21		HOURS 0 0 0 0 22 37 40		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB. Y 24	
PRIME COMP. SUPPLIER N 25		COMPONENT MANUFACTURER M 3 6 0 26											

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

USE DESCRIPTION AND CORRECTIVE ACTIONS ☺

The cause of the leakage was due to a failure of the gasketed seating surface between

the valve body seat ring and disc. The 1-2301-45 check valve was replaced with a new

exact replacement valve. A second leak rate test was performed with a corrected leak

rate of 0.0 SCFH.

FACILITY STATUS (1) 5 (2) H (28) % POWER (3) 0 (4) 0 (5) 0 (29) NA OTHER STATUS (30) METHOD OF DISCOVERY (31) B Local Leak Rate Testing DISCOVERY DESCRIPTION (32)
 ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)
 (1) 6 (2) Z (33) Z (34) NA
 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39)
 (1) 7 (2) 0 (3) 0 (4) 0 (37) Z (38) NA
 PERSONNEL INJURIES NUMBER DESCRIPTION (41)
 (1) 8 (2) 0 (3) 0 (4) 0 (40) NA
 LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (43)
 (1) 9 (2) Z (42) NA
 PUBLICITY ISSUED DESCRIPTION (45) NA
 (2) 0 (44) NA

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NRC USE ONLY
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- I. LER NUMBER: LER/RO 79-03/03L-0
- II. LICENSEE NAME: Commonwealth Edison Company
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit One
- IV. DOCKET NUMBER: 050-254
- V. EVENT DESCRIPTION:

While performing procedure QTS 100-18, HPCI Steam Exhaust Local Leak Rate Test, the 1-2301-45 check valve leak rate was 190.3 SCFH, which is in excess of the 18.36 SCFH allowable limit. The Unit One reactor was in the Shutdown Mode for the current refueling outage.

Work Request 358-79 was written to initiate repairs.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

The leakage through the 1-2301-45 check valve would not render the HPCI System inoperable; therefore, safe plant operation was not jeopardized. When operating under accident conditions the HPCI turbine exhaust passes through check valve 1-2301-45 and manual stop check 1-2301-74 and into the suppression pool. In the event of high suppression chamber pressure, the manual stop check, 1-2301-74, would act as a backup to the 1-2301-45 check valve.

VII. CAUSE:

The cause of the excessive leakage through the chec' valve was a failure of the gasketed seating surface between the valve body sect ring and disc.

VIII. CORRECTIVE ACTION:

The Mechanical Maintenance Department replaced the 1-2301-45 check valve with a new exact replacement, 24 inch Duo-Chek style "B", manufactured by Mission Valve. The new valve was tested on February 5 and found to have zero leakage.

One previous occurrence of excessive leakage through the 1-2301-45 valve was reported in RO 50-254/76-2 on February 2, 1976.