

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

LICENSEE CODE: 1 L 0 A D 1 2 0 0 0 0 - 0 0 0 - b b b 3 4 1 1 1 1 4 5

LICENSE NUMBER: 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

LICENSE TYPE: 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 CAT 58 59 60

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

EVENT DATE: 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

REPORT DATE: 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

While performing the local leak rate test on the volume between the main steam line drain valves, valve M0 1-220-1 was found to have a leak rate of 43.8 SCFH. The safety implications of this occurrence are minimal due to the fact that the redundant isolation valve, M0 1-220-2 had no leakage and would have provided primary containment isolation if needed.

SYSTEM CODE: C D 11 CAUSE CODE: E 12 CAUSE SUBCODE: B 13 COMPONENT CODE: V A L V E X 14 COMP. SUBCODE: E 15 VALVE SUBCODE: P 16

EVENT YEAR: 7 9 21 22 SEQUENTIAL REPORT NO.: 0 0 3 24 26 OCCURRENCE CODE: 0 3 28 29 REPORT TYPE: L 30 31 REVISION NO.: 0 32

LER/DO REPORT NUMBER: 17 18 19 20 21 22 ACTION TAKEN: B 33 FUTURE ACTION: Z 34 EFFECT ON PLANT: Z 35 SHUTDOWN METHOD: Z 36 HOURS: 0 0 0 0 37 40 ATTACHMENT SUBMITTED: Y 41 NPD-4 FORM SUB.: Y 42 PRIME COMP. SUPPLIER: N 43 COMPONENT MANUFACTURER: C 6 6 5 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

The leakage was found to be through the valve disc and seat. The disc-to-seat surfaces were dirty and the disc slightly worn. The valve disc was relapped and the valve seat was cleaned. A second leak rate test was performed and the corrected leak rate from the volume was found to be 10.5 SCFH.

FACILITY STATUS: H 28 % POWER: 0 0 0 29 OTHER STATUS: NA 30 METHOD OF DISCOVERY: B 31 DISCOVERY DESCRIPTION: Local Leak Rate Testing 32

ACTIVITY RELEASED: Z 33 CONTENT: Z 34 AMOUNT OF ACTIVITY: NA 35 LOCATION OF RELEASE: NA 36

PERSONNEL EXPOSURES: 0 0 0 37 TYPE: Z 38 DESCRIPTION: NA 39

PERSONNEL INJURIES: 0 0 0 40 DESCRIPTION: NA 41

LOSS OF OR DAMAGE TO FACILITY: 7 42 TYPE: Z 43 DESCRIPTION: NA 44

PURGENCY: N 45 DESCRIPTION: NA 46

ISSUED: N 47 DESCRIPTION: NA 48

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NRC USE ONLY

NAME OF PREPARER: R. Murray PHONE: 309-654-2241, ext. 246

- I. LER NUMBER: 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:

On January 19, 1979, with the Unit One reactor shut down for a refueling outage, routine local leak rate test procedure QTS 100-4 was performed on the volume between main steam line drain valves, M0 1-220-1 and M0 1-220-2. The combined leak rate was found to be 43.8 SCFH. This is in excess of the 18.36 SCFH allowed by Technical Specification 4.7.A.2.i.2.b. for any one isolation valve. The main steam lines were then filled with water, which imposed a head of approximately 25 psig on the M0 1-220-1 valve. A leak rate test was performed at 25 psig on the volume between the M0 1-220-1 and M0 1-220-2 valves. The results showed zero leakage through the M0 1-220-2 valve, thus it was resolved that the M0 1-220-1 valve was responsible for the leakage.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

Main Steam Line Drain Valves M0 1-220-1 and M0 1-220-2 are normally closed during reactor power operation and are open during startups and shutdowns to drain the main steam lines. The safety implications of this occurrence are minimized by the fact that the M0 1-220-2 valve was found not to be leaking. Thus, primary containment integrity was not compromised. The leakage path through this line could have been further isolated by closing valves M0 1-220-4 and 1-220-92, preventing any leakage from reaching the condenser.

VII. CAUSE:

The leakage was found to be through the valve disc and seat. The disc-to-seat surfaces were dirty and the disc slightly worn.

Valve M0 1-220-1 is a 3 inch carbon steel gate valve, manufactured by the Crane Company, model number 783-U.

VIII. CORRECTIVE ACTION:

The immediate corrective action was to write work request number 365-79 to repair the valve. The valve disc was relapped and the valve seat was cleaned. The valve was reassembled and a second local leak rate test was performed on the volume. The corrected leak rate for the volume was found to be 10.5 SCFH.