

- 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 check valve was a failure of the gasketed seating surface between the valve body seat 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.