

LICENSEE EVENT REPORT

CONTROL BLOCK: _____

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | 1 | L | Q | A | D | 2 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 5

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 | While performing quarterly test procedure QOS 1600-9, Unit Two Reactor Building to _____
0 3 | Suppression Chamber Vacuum Breaker valve 2-1601-20A failed to open. The consequences _____
0 4 | of this occurrence were minimal since the redundant 100% flow capacity vacuum _____
0 5 | breaker (2-1601-20B) operated properly. _____
0 6 | _____
0 7 | _____
0 8 | _____

0 9 | SYSTEM CODE S | A | 11 | CAUSE CODE E | 12 | CAUSE SUBCODE 8 | 13 | COMPONENT CODE V | A | L | V | O | P | 14 | COMP. SUBCODE E | 15 | VALVE SUBCODE Z | 16 |

17 | LER/RO REPORT NUMBER 7 | 8 | EVENT YEAR 7 | 8 | SEQUENTIAL REPORT NO. 0 | 3 | 7 | OCCURRENCE CODE / | REPORT TYPE 0 | 3 | REVISION NO. / | 0 |

ACTION TAKEN A | 18 | FUTURE ACTION Z | 19 | EFFECT ON PLANT Z | 20 | SHUTDOWN METHOD Z | 21 | HOURS 0 | 0 | 0 | 0 | ATTACHMENT SUBMITTED Y | 22 | NPRD-4 FORM SUB. Y | 23 | PRIME COMP. SUPPLIER Y | 24 | COMPONENT MANUFACTURER A | 25 | V | 0 | 9 | 5 | 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 | The 2-1601-20A valve did not open due to the failure of the air line solenoid _____
1 1 | operator (valve 2-1601-50A). This was a mechanical failure of the fourway Versa _____
1 2 | solenoid valve. The Versa solenoid valve was replaced and the 2-1601-20A vacuum _____
1 3 | breaker was retested and proven operable. _____
1 4 | _____

1 5 | FACILITY STATUS E | 28 | % POWER 0 | 9 | 8 | 29 | OTHER STATUS NA | 30 | METHOD OF DISCOVERY B | 31 | Routine Test 32

1 6 | ACTIVITY CONTAINED RELEASED Z | 33 | Z | 34 | AMOUNT OF ACTIVITY NA | 35 | LOCATION OF RELEASE NA | 36

1 7 | PERSONNEL EXPOSURES NUMBER 0 | 0 | 0 | 37 | TYPE Z | 38 | DESCRIPTION NA | 39

1 8 | PERSONNEL INJURIES NUMBER 0 | 0 | 0 | 40 | DESCRIPTION NA | 41

1 9 | LOSS OF OR DAMAGE TO FACILITY TYPE Z | 42 | DESCRIPTION NA | 43

2 0 | PUBLICITY ISSUED N | 44 | DESCRIPTION NA | 45

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NRC USE ONLY

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G.P.O. FORM 7-75

- I. LER NUMBER: LER/RO 78-37/03L-0
- II. LICENSE NAME: Commonwealth Edison Company
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit Two
- IV. DOCKET NAME: 050-265
- V. EVENT DESCRIPTION:

On November 16, 1978, Unit Two Reactor Building to Suppression Chamber Vacuum Breaker Valve (2-1601-20A) failed to open while performing quarterly test procedure QOS 1600-9.

Unit Two was in the RUN mode at a thermal power of 2460 MWt.

- VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

The consequences of this occurrence were minimal since the reactor building to suppression chamber vacuum relief system consists of two 100% flow capacity subsystems. Operation of either subsystem will maintain the pressure differential less than the external design of the primary containment. Redundancy of lines justify reactor operation with one valve out of service for repairs, for a period of seven days. The redundant 2-1601-20B valve did operate properly when tested.

- VII. CAUSE:

The 2-1601-20A valve did not open due to the failure of the air line solenoid operated valve 2-1601-50A. When the solenoid coil was de-energized, the solenoid core failed to return to the de-energized position; thus, not allowing air to open the 2-1601-20A valve. This was a mechanical failure of the four-way Versa Model VGS-4422-V-10-31 solenoid valve.

- VIII. CORRECTIVE ACTION:

Work request 5276-78 was written for electrical maintenance personnel to investigate the problem. The Versa solenoid valve was replaced, and the valve was again tested to be operable.