

LICENSEE EVENT REPORT

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

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

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0 1 | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 5 | 4 | 7 | 1 | 0 | 0 | 5 | 3 | 2 | 8 | 1 | 0 | 2 | 7 | 8 | 2 | 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
0 2 | On October 5, 1982, the Unit One 24/48 VDC "A" Battery Test Discharge, QTS 120-2, was
0 3 | performed. The 1A2 battery cell number 12 dropped to .13 VDC(1.75 VDC required
0 4 | minimum) between six and seven hours into the eight hour test. This dropped the "A"
0 5 | battery voltage below the required 21 volts at 10 amps and therefore, the "A"
0 6 | battery failed to pass the discharge test as required by Technical Specification
0 7 | 4.9.B.3. The "A" battery could have provided eight hours of power at actual load
0 8 | conditions (5.5 amps). In addition, the "B" 24/48 volt battery was found
0 9 | operable and would have provided power for the other redundant half of the
1 0 | 24/48 VDC instrumentation.

0 9 | SYSTEM CODE: E C (11) | CAUSE CODE: E (12) | CAUSE SUBCODE: F (13) | COMPONENT CODE: B A T T E R Y (14) | COMP SUBCODE: Z (15) | VALVE SUBCODE: Z (16)

17 | LER/RO REPORT NUMBER: 8 2 (21) | SEQUENTIAL REPORT NO.: 0 3 3 (24) | OCCURRENCE CODE: 0 3 (28) | REPORT TYPE: L (30) | REVISION NO.: 0 (32)

ACTION TAKEN: Z (18) | FUTURE ACTION: A (19) | EFFECT ON PLANT: Z (20) | SHUTDOWN METHOD: Z (21) | HOURS: 0 0 0 0 (22) | ATTACHMENT SUBMITTED: Y (23) | NPD-4 FORM SUB.: Y (24) | PRIME COMP. SUPPLIER: X (25) | COMPONENT MANUFACTURER: G I 8 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
1 0 | The gross failure of cell 12 of the 1A2 24/48 VDC volt battery caused the "A"
1 1 | battery to fail its discharge test. This failure has been attributed to battery
1 2 | age and repetitive discharge testing. A new "A" 24/48 VDC will be installed prior
1 3 | to Unit One startup.

1 5 | FACILITY STATUS: H (28) | % POWER: 0 0 0 (29) | OTHER STATUS: NA (30) | METHOD OF DISCOVERY: B (31) | DISCOVERY DESCRIPTION: Routine Test (32)

1 6 | ACTIVITY CONTENT RELEASED OF RELEASE: Z (33) | 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 | ISSUED DESCRIPTION: N (44) | PUBLICITY: NA (45)

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NRC USE ONLY

NAME OF PREPARER: C Iben
PHONE: 309-654-2241, ext 173

- I. LER NUMBER: LER/RO 82-33/03L-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 October 5, 1982, QTS 120-2, Quad-Cities Unit One 24/48 VDC "A" Battery Test Discharge was being performed. Technical Specification 4.B.3 requires that the 24 VDC battery be discharged at a manufacturer's amp-hour rated capacity of ten amperes for eight hours (80 amp hours). This test criteria is specified in IEEE Standard 450-1975. At some interval between the sixth and seventh hour of the discharge test, the Unit One 1A2-24 VDC battery terminal voltage dropped below the minimum specified battery voltage of 21 volts, as per IEEE 450-1975. Cell 12 voltage of the 1A2 battery fell below the minimum specified cell voltage (1.75 VDC) to 0.31 VDC, which indicated cell replacement was necessary. The estimated minimum capacity of the 1A2-24 VDC battery at a 10 ampere discharge rate was 75 percent of the manufacturer's specification.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

Load trend review on the 1A2-24 VDC battery indicates that operating load on the battery would be approximately 5.5 amperes. Had the need arisen, the 1A2 battery would have performed its function as required, and, maintained operation for the minimum of eight hours required. In addition, the "1B" 24/48 VDC battery was found to be completely operable and would have provided power for the other half of the required 24/48 VDC instrumentation.

Unit One was in the REFUEL mode and in Cold Shutdown. The fuel had been completely removed from the vessel, therefore, the battery was not required to be operable at the time of the test.

VII. CAUSE:

The direct cause of this event is gross failure of cell 12 in the 1A2-24 VDC battery. The other 11 cells were still well above the 1.75 VDC minimum cell voltage. Failure of the cell has been attributed to the near end of service life of the 24/48 VDC battery and repetitive discharge testing of the battery.

VIII. CORRECTIVE ACTION:

Due to the failure of the 2A2-24 VDC battery (DR 4-2-81-53) in January, 1981, the 24/48 VDC batteries were evaluated. It was decided to replace all of the 24/48 VDC batteries. The 1A and 1B 24/48 VDC batteries are scheduled to be replaced before the end of this refueling outage.