

- I. LER NUMBER: LER/RO 80-33/03L-0
- II. LICENSEE NAME: Commonwealth Edison Company
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit Two
- IV. DOCKET NUMBER: 050-265
- V. EVENT DESCRIPTION:

At 2315 hours on December 1, 1980, Unit Two was operating steady state at 822 MWe and 2481 MWt. At this time, the 'RHR System II Supply from Emergency Diesel' annunciator alarmed for no apparent reason. An investigation revealed that fuse F-11 in the 902-33 panel was blown, thus making the relay logic circuit for RHR System II inoperable. The fuse was replaced and the alarm cleared and the relay logic circuit re-energized. On December 2, 1980, the alarm came up again. Work Request Q09578 was written to investigate the cause of the blown fuse.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

The consequences of this occurrence were minimal. The 'RHR System II Supply from Emergency Diesel' alarm was caused by the drop-out of relay 10A-K1B, which senses when the diesel generator circuit breaker closes into the emergency bus. With the blown fuse, the automatic initiation function of RHR System II was inhibited. The 'C' and 'D' RHR pumps and valves associated with these pumps could have been manually operated from the Control Room if necessary. RHR System I logic was not affected by this occurrence. Both Core Spray and all high pressure injection and cooling systems were operable. Safe operation of the reactor was not affected as a result of this occurrence.

VII. CAUSE:

The cause of the occurrence is designated as equipment failure. The blown fuse was caused by a grounded wire in the 4KV Unit Two Diesel Generator to Bus 24-1 circuit breaker auxiliary contacts. The wire had rubbed on the wiring harness inside the breaker cabinet and had worn off the wire insulation. The logic system was supplied by the 125 VDC battery.

VIII. CORRECTIVE ACTION:

The worn wire and blown fuse were replaced. The Control Room alarm cleared and the RHR relay logic circuit was re-energized. All circuits affected by this problem were inspected and operation of relay 10A-K1B was verified.