

LICENSEE EVENT REPORT

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

ILDRS 3 00-000000-00 41111

REPORT SOURCE L 05000249 071980 072880

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) Following a manual scram, an ultrasonic test of the west scram discharge volume revealed the 4-inch pipe was 80% full after all level alarms cleared on the instrumented scram volume. Safety significance minimized because a recently implemented daily ultrasonic test verifies that scram volume remains drained and that sufficient volume is available to accommodate a scram. This was the first occurrence of this type at Dresden.

SYSTEM CODE IC 11 CAUSE CODE B 12 CAUSE SUBCODE A 13 COMPONENT CODE VALVEX 14 COMP. SUBCODE C 15 VALVE SUBCODE C 16 LER/RO REPORT NUMBER 17 EVENT YEAR 80 SEQUENTIAL REPORT NO. 031 OCCURRENCE CODE 01 REPORT TYPE T REVISION NO. 0 ACTION TAKEN F 18 FUTURE ACTION F 19 EFFECT ON PLANT C 20 SHUTDOWN METHOD Z 21 HOURS 0009 ATTACHMENT SUBMITTED Y 23 NPRD-4 FORM SUB. Z 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER G080 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) The exact cause is unknown, but the volume appeared to be insufficiently vented during the draining cycle. After manual actuation of a stuck closed vacuum breaker the scram discharge volume rate of draining appeared adequate. Vent lines were subsequently cut to provide a positive venting path. A system to continuously monitor water levels in scram discharge volumes is being investigated as required by I.E. Bdln. 80-17 Sup. 1.

FACILITY STATUS G 28 % POWER 000 29 OTHER STATUS NA 30 METHOD OF DISCOVERY C 31 DISCOVERY DESCRIPTION Quality Control Test 32

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

PERSONNEL EXPOSURES NUMBER 000 37 TYPE Z 38 DESCRIPTION NA 39

PERSONNEL INJURIES NUMBER 000 40 DESCRIPTION NA 41

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

PUBLICITY ISSUED N 44 DESCRIPTION NA 45

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P. Holland

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ATTACHMENT TO LICENSEE EVENT REPORT 80-031/01T-0  
COMMONWEALTH EDISON COMPANY (CWE)  
DRESDEN UNIT 3 (ILDRS 3)  
DOCKET #050-249

On July 19, 1980, a manual scram was performed on Dresden Unit 3 to gather data requested by I.E. Bulletin 80-17. Reactor pressure was 920 psig and reactor water temperature was 525° F. prior to the manual scram. One minute after the scram, the scram discharge volume (SDV) vent/drain valves Control Switch was placed in the ISOLATE position to assure the valves would not automatically open when the scram signal was reset. One minute and forty-five seconds after the scram, the scram signal was reset. After manually opening the vent/drain valves, the level switches on the scram instrument volume cleared (reset) in approximately eight minutes, indicating that the scram discharge volume was apparently drained.

An ultrasonic test of the east scram discharge volume four inch diameter headers revealed that they were, in fact, drained. However, an ultrasonic test of the west scram discharge volume four inch diameter headers revealed that they were approximately 80% full of water. Fifty-six minutes after manually opening the vent/drain valves, a ball check valve on the west scram discharge volume vent line (installed as a vacuum breaker) was manually opened with some difficulty. Air inrush into the scram discharge volume through the ball check valve was then heard and the ultrasonic test indicated that the scram discharge volume began draining at a faster rate. One hour and thirty-eight minutes after opening the vent/drain valves, the west scram discharge volume four inch diameter headers were reported drained.

The ball check valves on both the west and east scram discharge volume vent lines were removed, cleaned, and reinstalled. Also, an alternate continuous vent path to the Reactor Building atmosphere was established on both Units 2 and 3 on the vent piping between scram discharge volume vent valves and the Reactor Building Equipment Drain Tank. To establish this positive vent path, the existing one inch diameter vent line was cut, opening the line to the Reactor Building atmosphere in the torus area. An extension was added to the cut vent line to extend it below the torus catwalk. The alternate vent path is open at all times and does not depend on any component operability other than the installed scram discharge volume vent valve.

On July 20, 1980, an automatic scram of Dresden Unit 3 was initiated to complete the actions required by I.E. Bulletin 80-17. After resetting the scram and manually opening the vent/drain valves, the east scram discharge volume four inch diameter headers drained in sixteen minutes and thirty-six seconds and the west scram discharge volume four inch diameter headers drained in forty minutes and thirty-six seconds.

To ensure that the scram discharge volume remains drained and that sufficient volume is available to accommodate a scram, installation of a system to continuously monitor water level during operation is being investigated as required by Supplement 1 to I.E. Bulletin 80-17.