

LICENSEE EVENT REPORT

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

1 | I | L | D | R | S | 3 | 2 | 0 | 0 | - | 0 | 0 | d | d | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5
8 9 9 14 15 25 26 30 37 40 43 46 49 52 55 58 61 64 67 70 73 76 79 82 85 88 91

REPORT SOURCE: L 6 | 0 | 5 | 0 | 0 | 0 | 2 | 4 | 9 | 7 | 0 | 4 | 2 | 5 | 8 | 0 | 8 | 0 | 5 | 0 | 8 | 8 | 0 | 9
60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10
0 2 | During startup following refueling outage, combinations of the 3A Target Rock Valve
0 3 | and 3B, 3C and 3E Electromatic Relief Valves failed to open at rated reactor pressure
0 4 | while performing operability surveillance in six unsuccessful startup attempts.
0 5 | Minimal effect on public health and safety because HPCI system immediately proven
0 6 | operable and orderly shutdown initiated in each event. Similar event: R.O. 77-078/
0 7 | 03L-0.

9 | SYSTEM CODE: S F 11 | CAUSE CODE: E 12 | CAUSE SUBCODE: B 13 | COMPONENT CODE: V A L V E X 14 | COMP SUBCODE: X 15 | VALVE SUBCODE: P 16
17 | LE/RO REPORT NUMBER: 8 0 | EVENT YEAR: 8 0 | SEQUENTIAL REPORT NO.: 0 2 1 | OCCURRENCE CODE: 0 1 | REPORT TYPE: T | REVISION NO.: 0
ACTION TAKEN: B 18 | FUTURE ACTION: Z 19 | EFFECT ON PLANT: C 20 | SHUTDOWN METHOD: A 21 | HOURS: 0 0 0 0 | ATTACHMENT SUBMITTED: Y 23 | NRRD-4 FORM SUB.: Y 24 | PRIME COMP. SUPPLIER: N 25 | COMPONENT MANUFACTURER: D 2 4 3 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27
1 0 | 3A Target Rock had an improperly bolted air operator, 3B electromatic had various
1 1 | pilot valve problems, 3C electromatic had a jammed cutout switch on the solenoid coils,
1 2 | and 3E electromatic had pilot valve out of adjustment and blocked pilot discharge line.
1 3 | All problems finally corrected and each valve successfully operated at rated reactor
1 4 | pressure.

5 | FACILITY STATUS: C 28 | % POWER: 0 1 9 29 | OTHER STATUS: N/A 30 | METHOD OF DISCOVERY: B 31 | DISCOVERY DESCRIPTION: Relief Valve Operability Surveillance 32

6 | ACTIVITY CONTENT RELEASED: Z 33 | AMOUNT OF ACTIVITY: N/A 35 | LOCATION OF RELEASE: N/A 36

7 | PERSONNEL EXPOSURES: NUMBER: 0 0 0 37 | TYPE: Z 38 | DESCRIPTION: N/A 39

8 | PERSONNEL INJURIES: NUMBER: 0 0 0 40 | DESCRIPTION: N/A 41

9 | LOSS OF OR DAMAGE TO FACILITY: TYPE: Z 42 | DESCRIPTION: N/A 43

10 | PUBLICITY ISSUED: N 44 | DESCRIPTION: N/A 45

Randall Sheroff

NRC USE ONLY

ATTACHMENT TO LICENSEE EVENT REPORT 80-21/01T-0
COMMONWEALTH EDISON COMPANY (CWE)
DRESDEN UNIT ILDRS-3
DOCKET # 050-249

During initial startup on April 25, 1980, following the refueling outage, the 3A Target Rock and the 3E Electromatic Relief Valves failed to open at rated reactor pressure while performing a relief valve operability surveillance. All other electromatic relief valves operated successfully. All of the relief valves had operated correctly at 300 psi reactor pressure prior to reaching rated pressure. HPCI was immediately proven operable and an orderly shutdown commenced. Subsequent inspection of the Target Rock revealed missing nuts on the air operator. Since the air operator was not attached properly to the valve, actuation was not possible. The problem was corrected by properly bolting the operator on the valve. The 3E Electromatic was found to have the leak off line restricted by the gasket. The gasket was replaced.

Unit startup was again attempted. All relief valves successfully functioned at 250 psi reactor pressure. The 3B and 3E Electromatics failed to open at rated reactor pressure during the surveillance on 4-26-80. All of the remaining relief valves operated successfully. HPCI was proven operable and an orderly shutdown was begun. Pressure was dropped to about 200 psi. Adjustments were made to the pilot valves, and the valves functioned correctly at 450 psi reactor pressure. Reactor pressure was increased to the rated pressure, and the relief valves were tested. The 3B valve failed to open again. The unit was brought to a cold shutdown as required by Technical Specifications. The 3B valve was repaired by replacing the pilot valve gasket and adjusting the stroke of the adjustment arm of the pilot valve.

Unit startup was again attempted. All of the relief valves were operable at 300 psi reactor pressure. However, the 3B Electromatic relief valve failed to open at the rated pressure on 4-28-80. All other relief valves functioned successfully. HPCI was immediately proven operable and an orderly shutdown commenced. The 3B valve was examined, and the pilot valve mechanism was replaced with a new pilot assembly whose disk to stem clearance gave greater effective pilot valve stroke.

Unit startup begun. All of the relief valves functioned correctly at 400 psi reactor pressure. The 3B Electromatic failed to open at rated pressure during the operability surveillance on 4-29-80. HPCI was immediately proven operable and an orderly shutdown commenced. The entire 3B Electromatic Relief valve was replaced to correct the problem.

Startup was begun and all relief valves were functional at low pressure. However, 3B and 3C Electromatic Relief Valves failed to open at rated reactor pressure. All remaining relief valves were operable. HPCI was immediately proven operable and an orderly shutdown commenced. The 3C Electromatic was found to have a binding cutout switch for the solenoid coils. Necessary cleaning and adjusting was performed

to provide proper clearances on all electromatic solenoids. The 3B valve was reexamined, measurements made, pilot valve readjustments made, discharge line aligned with one of the discharge ports, and a final corrective measure was made, as suggested by the Dresser Representative, consisted of changing the pilot valve bleed off discharge line from 3/4" to 1" diameter.

Unit startup begun and all valves were successfully tested on May 3, 1980. There was minimal effect on public health or safety because the HPCI system was immediately proven operable in all cases, and an orderly shutdown initiated. Improved valve design and system configurations are being evaluated and will be implemented at the next refueling outage if deemed necessary.

The 3A Target Rock model number is 67F and the Dresser Electromatic Relief valves model numbers are 1525VX.