

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

December 8, 1977

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II - Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Serial No. 562
PO&M/TAP:wbh
Docket No. 50-281
License No. DPR-37

Dear Mr. O'Reilly:

Pursuant to Surry Power Station Technical Specification 6.6.2, the Virginia Electric and Power Company hereby submits the following licensee Event Reports for Surry Unit No. 2:

LER-77-015/01T-1
LER-77-016/03L-0
LER-77-017/03L-0
LER-77-018/03L-0

The substance of these reports has been reviewed by the Station Nuclear Safety and Operating Committee and will be placed on the agenda for the next meeting of the System Nuclear and Operating Committee.

Very truly yours,

C. M. Stallings

C. M. Stallings
Vice President - Power Supply
and Production Operations

Enclosures

cc: Mr. Robert W. Reid, Chief 40 copies
Operating Reactors Branch 4

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LICENSEE EVENT REPORT

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

| V | A | S | P | S | | | | | - | | | | | | | - | | | | | | | | | | | _____ |

CON'T
 | REPORT SOURCE | L | | | | | | | | | | | | | | | | | | | | | | | |

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

| During normal operation it was found that Unit 2 B Safety Injection Accumulator Boron concentration was 1886 ppm which is contrary to T.S. 3.3.A.2. Recirculation with the refueling water storage tank was immediately begun and B accumulator was within specifications in 3 hours. This event is reportable pursuant to T.S.-6.6.2b(2).

| SYSTEM CODE | S | F | (11) | CAUSE CODE | E | (12) | CAUSE SUBCODE | F | (13) | COMPONENT CODE | V | A | L | V | E | X | (14) | COMP. SUBCODE | C | (15) | VALVE SUBCODE | A | (16)

| LER/RO REPORT NUMBER | 7 | 7 | EVENT YEAR | 7 | 7 | SEQUENTIAL REPORT NO. | 0 | 1 | 6 | OCCURRENCE CODE | 0 | 3 | REPORT TYPE | L | REVISION NO. | 0 |

| ACTION TAKEN | X | | FUTURE ACTION | D | | EFFECT ON PLANT | Z | | SHUTDOWN METHOD | Z | | HOURS | 0 | 0 | 0 | ATTACHMENT SUBMITTED | Y | | NPRD-4 FORM NO. | N | | PRIME COMP. SUPPLIER | A | | COMPONENT MANUFACTURER | D | 0 | 2 | 0 |

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

| Check valve 2-SI-127 in sensitized piping flush path was suspected to be leaking through and diluting B accumulator. Leakage appears to be corrected by valve isolation. A maintenance request has been submitted to repair 2-SI-127.

| FACILITY STATUS | E | (28) | % POWER | 1 | 0 | 0 | (29) | OTHER STATUS | NA | (30) | METHOD OF DISCOVERY | B | (31) | NA | DISCOVERY DESCRIPTION | (32)

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

| PERSONNEL EXPOSURES NUMBER | 0 | 0 | 0 | (37) | TYPE | Z | (38) | DESCRIPTION | NA | (39)

| PERSONNEL INJURIES NUMBER | 0 | 0 | 0 | (40) | DESCRIPTION | NA | (41)

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

| PUBLICITY ISSUED | Z | (44) | DESCRIPTION | NA | (45)

NRC USE ONLY

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NAME OF PREPARER T. L. Baucom PHONE: 804-357-3184

LER 77- 0 1 6 /03-L-0

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION, UNIT 2
DOCKET NO. 050-0281
EVENT DATE: 11-8-77

During normal operation it was found, by means of periodic chemistry sampling, that the Unit 2 B Safety Injection Accumulator (2-SI-TK-1B) boron concentration was 1886 ppm. This is contrary to T.S. 3.3.A.2.

Recirculation with the refueling water storage tank was immediately commenced and B accumulator was within specifications 3 hours after the low concentration was identified.

Investigation indicated that an extremely low rate of leakage was occurring through valve 2-SI-127 (accumulator drain check valve) from the sensitized piping flush path. Isolation of the valves in the flush path appeared to correct the leakage. Maintenance request for repair of 2-SI-127 has been submitted.

The 3 hours required to bring B accumulator within specifications is less than the 4 hours "out of service period" allowed by T.S. 3.3.B.1. A and C accumulators were at 2334 ppm and 2110 ppm boron respectively at the time of B's dilution.

The health and safety of the general public were not affected because sufficient total accumulator boron existed at all times.