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VIRGINIA ELECTRIC AND POWER COMPANY

RICHMOND, VIRGINIA 23261

May 5, 1978

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Mr. James F. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II, Suite 813
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Serial No. 255
FOAM/DLB:das
Docket No. 50-281
License No. DPR-37

Dear Mr. O'Reilly:

Pursuant to Surry Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following Licensee Event Report for Surry Unit No. 2.

Report No.	Applicable Technical Specification
LER-78-014/03L-8	TS 6.5.2.5(2)

This report 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 Safety and Operating Committee.

Very truly yours,

C. E. Stallings

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

Enclosure (3 copies)

cc: Dr. Ernst Volgenau, Director (30 copies)
Office of Inspection and Enforcement

Mr. William G. McDonald, Director (3 copies) ✓
Office of Management Information
and Program Control

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LICENSEE EVENT REPORT

CONTROL BLOCK: [] [] [] [] [] [] [] [] [] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

[01] [VA] [SP] [S2] [00] [00] [00] [00] [00] [00] [00] [41] [11] [11] [05]
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 31 CAT 58

CON'T
[01] [L] [05] [00] [02] [81] [07] [04] [10] [78] [00] [50] [37] [88]
7 8 9 REPORT SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
[02] With unit in normal operation, at rated power, charging pump service
[03] water pump A (2-SW-P-10A) tripped on high current. This event created
[04] a condition contrary to T.S. 3.3.A.8.b and is reportable per T.S. 6.6.2,
[05] b(2). The health and safety of the general public were not affected
[06] since the companion pump, which is fully redundant, was placed in opera-
[07] tion.

[09] [W] [B] [E] [B] [M] [O] [T] [O] [R] [X] [Z] [Z]
7 8 9 SYSTEM CODE 10 11 CAUSE CODE 12 13 COMPONENT CODE 14 15 COMP. SUSCODE 16 17 VALVE SUBCODE 18 19

(17) [7] [8] [0] [1] [4] [0] [3] [L] [0]
21 22 23 24 25 26 27 28 29 30 31 32
ACTION TAKEN [C] [Z] [Z] [Z] [0] [0] [0] [Y] [Y] [A] [G] [I] [O] [8] [0]
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
[10] The pump tripped due to an overload condition caused by deterioration of
[11] the motor bearings. The pump was replaced with an on-site spare, and
[12] removed to the shop for overhaul of pump and motor.

[15] [E] [10] [0] [0] [NA] [A] [Low Water Press Alarm]
7 8 9 FACILITY STATUS 10 % POWER 11 12 OTHER STATUS 13 14 METHOD OF DISCOVERY 15 16 DISCOVERY DESCRIPTION 17 18

[16] [0] [Z] [NA] [NA] [NA]
7 8 9 ACTIVITY RELEASED OF RELEASE 10 11 AMOUNT OF ACTIVITY 12 13 LOCATION OF RELEASE 14 15

[17] [0] [0] [0] [Z] [NA]
7 8 9 PERSONNEL EXPOSURES NUMBER 10 11 TYPE 12 13 DESCRIPTION 14 15

[18] [0] [0] [0] [NA]
7 8 9 PERSONNEL INJURIES NUMBER 10 11 DESCRIPTION 12 13

[19] [Z] [NA]
7 8 9 LOSS OF OR DAMAGE TO FACILITY TYPE 10 11 DESCRIPTION 12 13

[20] [N] [NA] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] []
7 8 9 PUBLICITY ISSUED DESCRIPTION 10 11 NRC USE ONLY 12 13

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

Surry Power Station, Unit II
Docket No.: 50-281
Report No.: 78-014/03L-0
Event Date: 4-10-78

Failure of Charging Pump Service Water Pump 2-SW-P-10A

1. Description of Event:

During normal unit operation at rated power, "A" charging pump service water pump (2-SW-P-10A) tripped on electrical overload. This event created a condition contrary to Technical Specification 3.3.A.8.b and is reportable in accordance with Technical Specification 6.6.2.b.(2).

2. Probable Consequences/Status of Redundant Systems:

The companion pump, a full rated pump, was put into operation. The health and safety of the general public was not affected since the redundant system was fully operable.

3. Cause of Event:

The pump tripped on overload which was caused by damaged bearings in the motor (prime mover). On disassembly of the pump for repair, the impeller of the pump was found to be eroded. It is possible that vibration of the pump due to the eroded impeller could have accelerated bearing failure in the motor.

4. Immediate Corrective Action:

The companion pump was started to provide service water flow. The failed pump was replaced with a rebuilt pump from station spares.

5. Subsequent Corrective Action:

The failed pump and motor were rebuilt and placed in station spares.

6. Actions Taken to Prevent Recurrence

No further action is anticipated for this event. These pumps are normally overhauled during outages as a routine measure. Rebuilt spares are maintained for use on short notice.

7. Generic Implications

There are no generic implication in this event.