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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 V A S P S 2 2 00 - 00 00 00 - 00 3 4 1 1 1 1 4 5  
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 31 CAT 53

CON'T  
01 REPORT SOURCE 1 05 00 02 8 1 7 04 10 7 8 8 05 03 7 8 9  
7 8 9 DOCKET NUMBER 60 61 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.  
08

09 SYSTEM CODE W B 11 CAUSE CODE E 12 CAUSE SUBCODE B 13 COMPONENT CODE M O T O R X 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16  
7 8 9 10 11 12 13 14 15 16  
17 LER/RO REPORT NUMBER 17 8 21 22 SEQUENTIAL REPORT NO. 0 1 4 25 26 OCCURRENCE CODE 0 3 28 29 REPORT TYPE L 30 31 REVISION NO. 0 32  
ACTION TAKEN C 18 Z 19 FUTURE ACTION Z 20 EFFECT ON PLANT Z 21 SHUTDOWN METHOD Z 22 HOURS 0 0 40 ATTACHMENT SUBMITTED Y 23 NPRO-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER A 25 COMPONENT MANUFACTURER G I O 8 0 26  
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.  
13  
14

15 FACILITY STATUS E 28 % POWER 10 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Low Water Press Alarm 32  
7 8 9 10 11 12 13 14 15 16  
16 ACTIVITY RELEASED OF RELEASE 0 33 CONTENT Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36  
7 8 9 10 11 12 13 14 15 16  
17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39  
7 8 9 10 11 12 13 14 15 16  
18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41  
7 8 9 10 11 12 13 14 15 16  
19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43  
7 8 9 10 11 12 13 14 15 16  
20 PUBLICITY ISSUED N 44 DESCRIPTION NA 45 NRC USE ONLY

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.