

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

August 11, 1977



Regulatory

ELG:CS

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. 338  
PO&M/TAP:das  
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 a copy of Reportable Occurrence No. RO-S2-77-05.

The substance of 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. M. Stallings*

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

Enclosures

40 copies RO-S2-77-05

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

# LICENSEE EVENT REPORT

CONTROL BLOCK: 

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(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME			LICENSE NUMBER												LICENSE TYPE					EVENT TYPE																	
01	V	A	S	P	S	2	0	0	-	0	0	0	0	-	0	0	4	1	1	1	0	0	3														
7	8	9	14			15												25					28		30		31		32								
CONT			CATEGORY		REPORT TYPE	REPORT SOURCE	DOCKET NUMBER						EVENT DATE					REPORT DATE																			
01	P	O	L	L	0	5	0	-	0	2	8	1	0	7	1	8	7	7	0	8	0	3	7	7													
7	8	57		58	59	60	61						68					69					74					75					80				

**EVENT DESCRIPTION**

02 | At Cold Shutdown, in the course of routine testing, Reactor Coolant Flow Comparator  
7 8 9 80

03 | (FC-2-414) failed to trip. The two redundant systems were operational for the  
7 8 9 80

04 | required two out of three low flow trip. Previous test was satisfactory. The  
7 8 9 80

05 | corrective action implemented was to replace the comparator with an operational  
7 8 9 80

06 | spare. This condition is reportable per Technical Specification 6.6.2b(2).  
7 8 9 80

(RO-S2-77-5 )

SYSTEM CODE		CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER			VIOLATION								
07	I	A	E	I	N	S	T	R	U	N	H	O	2	O	N						
7	8	9	10	11				12		17			43		44			47		48	

**CAUSE DESCRIPTION**

08 | A Westinghouse Hagan Single Signal Comparator Model 4111082-001 failed to trip due to  
7 8 9 80

09 | capacitor leakage. Since these capacitors have an expected life of 10 to 20 years,  
7 8 9 80

10 | and this failed capacitor has been in use for approximately nine years, the (Cont'd)  
7 8 9 80

FACILITY STATUS		% POWER			OTHER STATUS			METHOD OF DISCOVERY		DISCOVERY DESCRIPTION															
11	G	0	0	0	N/A	N/A	B	PT-2.2	Reactor Coolant Flow																
7	8	9	10			12			13		44		45			46					80				
FORM OF ACTIVITY RELEASED		CONTENT OF RELEASE			AMOUNT OF ACTIVITY					LOCATION OF RELEASE															
12	Z	Z	N/A					N/A																	
7	8	9	10			11					44					45					80				

**PERSONNEL EXPOSURES**

NUMBER			TYPE		DESCRIPTION										
13	0	0	0	Z	N/A										
7	8	9	11		12			13			80				

**PERSONNEL INJURIES**

NUMBER			DESCRIPTION										
14	0	0	0	N/A									
7	8	9	11			12			80				

**OFFSITE CONSEQUENCES**

15 | N/A  
7 8 9 80

**LOSS OR DAMAGE TO FACILITY**

TYPE		DESCRIPTION								
16	Z	N/A								
7	8	9	10			80				

**PUBLICITY**

17 | N/A  
7 8 9 80

**ADDITIONAL FACTORS**

18 | The health and safety of the public were not affected because the two operational  
7 8 9 80

19 | redundant comparators would have initiated the required low flow trip, in that (Cont'd.)  
7 8 9 80

NAME: J.L. Rouman

PHONE: 804-357-3184

CAUSE DESCRIPTION (CONTINUED)

probable cause was aging. As per a Westinghouse Technical Bulletin (NSD-TB-75-14) dated October 21, 1975, these capacitors have no specific problem of a generic nature. However, Westinghouse does recommend that these leaking capacitors be replaced with a premium grade or Tantalum capacitor, presently available, on an as-failed basis, instead of a general capacitor replacement program. This criteria is presently observed at Surry. The present rate of capacitor failure is very low and any increase in this rate will require a re-evaluation of our capacitor change-out policy.

ADDITIONAL FACTORS (CONTINUED)

particular loop.

RECEIVED DOCUMENT  
PROCESSING UNIT

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