

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

April 15, 1977



Mr. Norman C. Moseley, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Region II - Suite 818  
230 Peachtree Street, Northwest  
Atlanta, Georgia 30303

Serial No. 162  
PO&M/TAP:dgt

Docket No. 50-280  
License No. DPR-32

Dear Mr. Moseley:

Regulatory

File by

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-S1-77-10.

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 of RO-S1-77-10

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

77/090258

CONTROL BLOCK: 1 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

LICENSEE NAME 01 V A S P S I														LICENSE NUMBER 00-000000-00										LICENSE TYPE 41110					EVENT TYPE 03	
7		8		9		14		15		25		26		30		31		32												
01		CONT		CATEGORY P O		REPORT TYPE L		REPORT SOURCE L		DOCKET NUMBER 050-0280		EVENT DATE 032877		REPORT DATE 041477		74		80												
7		8		57		58		59		60		61		68		69		74		75		80								

EVENT DESCRIPTION

02 While operating at 99% power during the conduct of PT-8.3A (Safety Injection System																		80	
03 Logic) it was noted High Steam Flow relay (FC-485-XA) malfunctioned. Investigation																		80	
04 revealed that the BF-48 relay contacts, normally open with steam flow within estab-																		80	
05 lished parameters, would not close under conditions of simulated high steam flow.																		80	
06 A maintenance report was initiated and the relay was repaired and returned (Cont'd)																		80	
7		8		9		14		15		25		26		30		31		32	

SYSTEM CODE T A		CAUSE CODE E		COMPONENT CODE R E L A Y X				PRIME COMPONENT SUPPLIER A		COMPONENT MANUFACTURER W 1 2 0				VIOLATION N	
7 8 9 10		11		12 13 14 15 16 17				43		44 45 46 47				48	

CAUSE DESCRIPTION

08 Examination revealed that foreign material impregnated the BF relay and forcefully																		80	
09 opposed closing the contacts. Once the debris was removed the relay operated properly																		80	
10 Since this same test was conducted successfully less than a month previously (Cont'd)																		80	
7		8		9		14		15		25		26		30		31		32	

FACILITY STATUS E		% POWER 099		OTHER STATUS N/A				METHOD OF DISCOVERY B		DISCOVERY DESCRIPTION While conducting monthly test									
7 8 9		10		12		13		44		45		46		47		48		80	
FORM OF ACTIVITY RELEASED Z		CONTENT OF RELEASE Z		AMOUNT OF ACTIVITY N/A				LOCATION OF RELEASE											
7 8 9		10		11		12		44		45		46		47		48		80	

PERSONNEL EXPOSURES

NUMBER 000		TYPE Z		DESCRIPTION N/A															
7 8 9		11		12		13													

PERSONNEL INJURIES

NUMBER 000		DESCRIPTION N/A															
7 8 9		11 12															

OFFSITE CONSEQUENCES

15 N/A																		80	
7		8		9		14		15		25		26		30		31		32	

LOSS OR DAMAGE TO FACILITY

TYPE Z		DESCRIPTION N/A															
7 8 9		10															

PUBLICITY

17 N/A																		80	
7		8		9		14		15		25		26		30		31		32	

ADDITIONAL FACTORS

18 The companion relay (FC-485-XB) and the other instrument channel were operable to																		80	
19 insure that the one out of two high steam flow matrix would have been (Continued)																		80	
7		8		9		14		15		25		26		30		31		32	

NAME: Tyndall L. Baucom

PHONE: (804) 357-3184

#### EVENT DESCRIPTION (CONTINUED)

to service operating properly. This event is contrary to Technical Specification 3.7 and is reportable per Technical Specification 6.6.2.b(1). (RO-S1-77-10)

#### CAUSE DESCRIPTION (CONTINUED)

and no maintenance had been performed in this area, it is hypothesized the foreign matter had been lodged within the relay for some time without obstructing its operation but had altered its position since last tested. This is the first recorded instance of relay failure attributable to this cause; therefore, no generic problem is apparent and no additional or accelerated surveillance is anticipated.

#### ADDITIONAL FACTORS (CONTINUED)

maintained in loop B. Therefore, adequate redundancy was maintained and neither the safety related systems nor the health and safety of the general public were jeopardized.