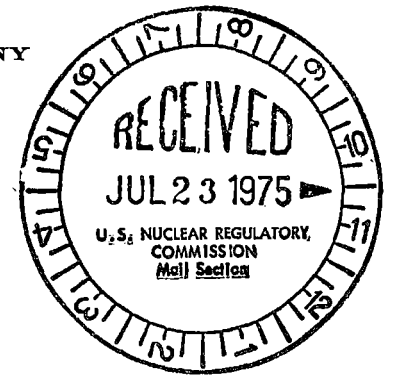


VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

July 15, 1975



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

Serial No. 598  
PO&M/JTB:clw  
Docket No. 50-281  
License No. DPR-37

Dear Mr. Moseley:

Pursuant to Surry Power Station Technical Specification 6.6.B.1, the Virginia Electric and Power Company hereby submits forty (40) copies of Abnormal Occurrence Report No. AO-S2-75-12.

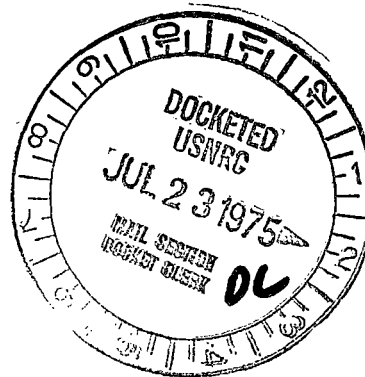
The substance of this report has been reviewed by the Station Nuclear Safety and Operating Committee and will be placed on the agenda for the next meeting of the System Nuclear Safety and Operating Committee.

Very truly yours,

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

Enclosures  
40 copies of AO-S2-75-12

cc: Mr. K. R. Goller



# LICENSEE EVENT REPORT

AO-S2-75-12

CONTROL BLOCK:

[PLEASE PRINT ALL REQUIRED INFORMATION]

## Regulatory Docket File

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	1
7	8	9				14	15							25	26				30	31	32		

CATEGORY			REPORT TYPE		REPORT SOURCE		DOCKET NUMBER					EVENT DATE				REPORT DATE									
01	CONT	P	0	T	L	0	5	0	-	0	2	8	1	0	7	0	6	7	5	0	7	1	4	7	5
7	8	57	58	59	60	61						68	69				74	75					80		

**EVENT DESCRIPTION**

02	During full power operation, the main steam trip valve in B steam line suddenly closed	80
03	causing the closure of A and C trip valves and a reactor trip. While at hot shutdown	80
04	testing revealed that the A and C main steam trip valves would not close following	80
05	reopening. This event is considered an abnormal occurrence since the failure of the	80
06	trip valves to close during testing is an engineered safeguard system malfunction (cont)	80

SYSTEM CODE			CAUSE CODE		COMPONENT CODE				PRIME COMPONENT SUPPLIER		COMPONENT MANUFACTURER			VIOLATION	
07	H	B	E	V	A	L	V	E	X	A	S	0	7	5	N
7	8	9	10	11	12				17	43	44	47			48

**CAUSE DESCRIPTION**

08	Investigation revealed a faulty piston O-ring in one of the operating cylinders on B	80
09	trip valve and trash in the solenoid valve supplying air to the cylinder. Adequate	80
10	air pressure was not maintained due to blockage in the solenoid valve and leakage (cont)	80

FACILITY STATUS		% POWER			OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION				
11	G	0	0	0	N/A	C	N/A						
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

Inspected W/Ltr Dated **7-15-75**

**PERSONNEL INJURIES**

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

**OFFSITE CONSEQUENCES**

15	N/A	80
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**LOSS OR DAMAGE TO FACILITY**

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

**PUBLICITY**

17	N/A	80
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**ADDITIONAL FACTORS**

18	N/A	80
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19		80
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NAME: E. M. Sweeney, Jr.

PHONE: (804) 357-3184

EVENT DESCRIPTION: (con't)

which could render the system incapable of performing its intended function (TS 1.I.6). AO-S2-75-12

CAUSE DESCRIPTION: (con't)

past the O-ring causing the valve to trip. The O-ring was replaced and the air lines cleared of all debris. A and C trip valves would not close due to binding between the back of the valve discs and valve body. Non-destructive testing revealed no component failures on any valves. The chamfer corner on the edge of the valve discs was rounded by grinding in the area where binding occurred. The corners were ground sufficiently on all valves to allow the disc to be opened approximately two degrees higher than the movement when connected to the operating cylinders. The load carrying capacity of the discs is not changed by this modification.