

CONTROL BLOCK: 

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 ①

0	1	C	O	F	S	V	1	2	U	0	-	U	0	0	U	0	-	U	0	3	4	1	1	2	U	4			5		
7	8	LICENSEE CODE							14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	57	CAT 58	

REPORT SOURCE: 01 L 6 05000267 7 11211383 8 011284 9

0 2 | On two occasions in December, 1983, the emergency feedwater supply header to the

0 3 | Loop I helium circulators was unavailable to drive the circulators' water turbines.

0 4 | The reactor was operating near 70% power during each of the events. These events

0 5 | constitute operations in a degraded mode of LCO 4.2.2(a), and are reportable per Fort

0 6 | St. Vrain Technical Specification AC 7.5.2(b)2. No accompanying occurrence. No

0 7 | affect on public health or safety. Similar Reports: 83-036, 83-023, and 83-015.

[illegible]

1 0 | Repair of the two safety relief valves and the pressure control valve required the

1 1 | replacement of valve internal parts to eliminate the internal leakage. These repairs

1 2 | necessitated isolation of the helium circulator water turbine drives. In both events,

1 3 | the emergency feedwater header was returned to service within the time allowed by

1 4 | LCO 4.2.2. No further corrective action is anticipated or required.

7 8 9 FACILITY STATUS  
1 5 E 28  
2 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

% POWER 0 7 0 29 N/A  
OTHER STATUS 30  
METHOD OF DISCOVERY A 31 Operator Observation  
DISCOVERY DESCRIPTION 32

ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)

1 6 Z (33) Z (34) N/A

7 8 9 10 11 44

LOCATION OF RELEASE (36)

N/A

45 80

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	(37)	Z	(38)	N/A	(39)

7		8		9		11		12		13	
PERSONNEL INJURIES											
NUMBER						DESCRIPTION (41)					
1		8		0		0		0		(40) N/A	

7 8 9 11 12

LOSS OF OR DAMAGE TO FACILITY (43)

TYPE DESCRIPTION

9 | Z | (42) | N/A

8401230186 840112  
PDR AD0CK 05C00267  
S PDR

7	8	9	10											
PUBLICITY				NRC USE ONLY										
ISSUED				DESCRIPTION										
2	0	N	(44)	N/A										

NAME OF PREPARER

PHONE: (303) 785-2224

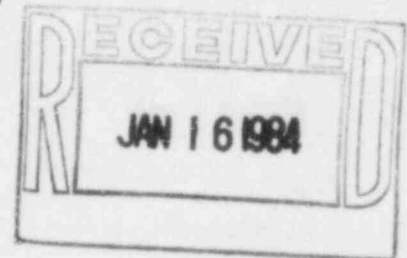


**Public Service Company of Colorado**

16805 Road 19 1/2, Platteville, Colorado 80651-9298

50-267

January 12, 1984  
Fort St. Vrain  
Unit No. 1  
P-84022



Mr. John T. Collins, Regional Administrator  
Region IV  
Nuclear Regulatory Commission  
611 Ryan Plaza Drive  
Suite 1000  
Arlington, Texas 76011

Reference: Facility Operating License  
No. DPR-34

Docket No. 50-267

Dear Mr. Collins:

Enclosed please find a copy of Reportable Occurrence Report No. 50-267/83-054, Final, submitted per the requirements of Technical Specification AC 7.5.2(b)2.

Also, please find enclosed one copy of the Licensee Event Report for Reportable Occurrence Report No. 50-267/83-054.

Very truly yours,

*Don Warembourg*  
Don Warembourg  
Manager, Nuclear Production

DW/djm

Enclosure

cc: Director, MIPC

11005  
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REPORT DATE: January 12, 1984

REPORTABLE OCCURRENCE 83-054

ISSUE 0

OCCURRENCE DATE: December 13, 1983

Page 1 of 3

FORT ST. VRAIN NUCLEAR GENERATING STATION  
PUBLIC SERVICE COMPANY OF COLORADO  
16805 WELD COUNTY ROAD 19 1/2  
PLATTEVILLE, COLORADO 80651-9298

REPORT NO. 50-267/83-054/03-L-0

Final

IDENTIFICATION OF  
OCCURRENCE:

On two occasions in December, 1983, the emergency feedwater supply header to the Loop I helium circulators, C-2101 and C-2102, was unavailable to drive the helium circulator water turbines. The reactor was operating at approximately 70% power during each event. These events constitute operations in a degraded mode of LCO 4.2.2(a) and are reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)2.

EVENT  
DESCRIPTION:

EVENT #1

At 1540 hours on December 13, 1983, the emergency feedwater supply header to the Loop I helium circulator water turbine drives was isolated to perform maintenance on two leaking safety valves, V-21522 and V-21542. The appropriate repairs were completed and the header returned to normal service at 1221 hours on December 14, 1983.

EVENT #2

At 1855 hours on December 14, 1983, the emergency feedwater supply header to the Loop I helium circulator water turbine drives was again isolated to perform maintenance on pressure control valve, PV-21243, due to internal leakage. The appropriate repairs were completed and the header returned to normal service at 1323 hours on December 15, 1983.

If necessary, the affected helium circulators could have been operated on the water turbine drives, at a reduced speed, utilizing the water supplied from the emergency condensate header or the firewater system.

CAUSE  
DESCRIPTION:

Component Failure.

Isolation of the emergency feedwater supply header was necessary to repair the leaking water turbine drive safety valves, V-21522 and V-21542, in Event #1, and again to repair the leaking pressure control valve, PV-21243, in Event #2.

The seat and disc of V-21522 were found to be cut. The seat and disc of V-21542 were found to be in satisfactory condition, but worn. The internals of PV-21243 were found to be worn.

Leakage is attributed to normal wear due to high pressure/temperature water flow in all cases.

Safety relief valves, V-21522 and V-21542, are two inch carbon steel, cast, 1500# rating, Model 1916-30-GC-P1, manufactured by Dresser.

Pressure control valve, PV-21243, is a six inch, carbon steel cast, flow control, globe valve (with a pneumatic operator), Model 71-20721, manufactured by Masoneilan.

CORRECTIVE  
ACTION:

The seats and disc nozzles of V-21522 and V-21542 were replaced with remachined parts. Both V-21522 and V-21542 were returned to service at 1221 hours on December 14, 1983.

PV-21243 was cleared for maintenance which included replacing the valve plug, stem, and gasket. Following reassembly, the valve was readjusted and returned to service at 1323 hours on December 15, 1983.

No further corrective actions are anticipated or required.

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