

Public Service Company of Colorado

16805 ROAD 191/2 PLATTEVILLE, COLORADO 80651

> December 17, 1980 Fort St. Vrain Unit No. 1 P-80432

Mr. Karl V. Seyfrit, Director Nuclear Regulatory Commission Region IV Office of Inspection and Enforcement 611 Ryan Plaza Drive Suite 1000 Arlington, Texas 76012

Reference: Facility Operating License

No. DPR-34

Docket No. 50-267

Dear Mr. Seyfrit:

Enclosed please find a copy of Reportable Occurrence Report No. 50-267/80-72, Preliminary, submitted per the requirements of Technical Specification AC 7.5.2(b)1 and AC 7.5.2(b)2.

Also, please find enclosed one copy of the Licensee Event Report for Reportable Occurrence Report No.50-267/80-72.

Very truly yours,

Non Warembourg

Manager, Nuclear Production

DW/sb

Enclosure

cc: Director, MIPC

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

REPORT NO. 50-267/80-072/03-L-0

Preliminary

IDENTIFICATION OF OCCURRENCE:

During the November performance of the monthly check of the helium circulator seal malfunction pressure differential switches, it was discovered that three of the twelve switch units tripped outside the limits specified in LCO 4.4.1, Table 4.4-3.

These are reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)1 and AC 7.5.2(b)2.

EVENT DESCRIPTION:

While operating at 66% thermal power and 207 MWe, instrument personnel performed the circulator seal malfunction (buffer-mid-buffer) switch operability check. The switches are normally calibrated on an annual basis; however, due to the problems cited in the previous reports as listed on the LER, a check of buffer-mid-buffer trip settings on a monthly basis has been undertaken as an interim measure to test operability.

There are twelve buffer-mid-buffer switch units, three per circulator. Each switch unit contains two electrical switches. The range of the sensing element is from (-) 100 inches of water to zero to (+) 100 inches of water. One of the electrical switches in each unit must operate at greater than or equal to (-) 10 inches water (negative buffer-mid-buffer), and the other electrical switch must operate at less than or equal to (+) 80 inches of water (positive buffer-mid-buffer) per Table 4.4-3.

The trip settings for the twelve switches are listed in Table 1.

The switch settings, which were found to be less conservative than those established by the Technical Specification did not prevent the fulfillment of the functional requirements of the system.

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CAUSE DESCRIPTION:

Dirt buildup and accumulation in the electrical switches prevented them from making proper contact.

CORRECTIVE ACTION:

The trip settings of the electrical switches were re-adjusted to the proper trip points.

Due to the continuing problems being experienced with the electrical switches, the interim theck of the trip settings is being conducted on a monthly basis.

The investigation of the problem associated with the helium circulator seal malfunction trip switches has been completed, and Public Service Company Nuclear Project Department is proceeding on a path to replace the existing equipment.

TABLE 1

		As Found Inches H20		As Left Inches H20	
	-	Increasing Trip Point	Decreasing Trip Point	Increasing Trip Point	A STATE OF THE PARTY OF THE PAR
LA Circulator	PDIS-21149	+76	- 7	+76	-7
	PDIS-21151	+74	- 5	+74	-5
	PDIS-21153	+75	- 6	+75	-6
1B Circulator	PDIS-21155	+73	-30 ①	+73	-6
	PDIS-21157	+75	-20 ①	+75	-6
	PDIS-21159	+77	- 5	+77	-5
1C Circulator	PDIS-21150	+74	- 7	+74	-7
	PDIS-21152	+73	- 4	+73	-4
	PDIS-21154	+77	- 6	+77	-6
lD Circulator	PDIS-21156	+75	-25 ①	+75	-6
	PDIS-21158	+77	- 6	+77	-6
	PDIS-21160	+77	- 7	+77	-7

¹ Denotes switches which were out of tolerance.

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