



Public Service Company of Colorado

16805 Weld County Road 19 1/2, Platteville, Colorado 80651

October 3, 1979
Fort St. Vrain
Unit No. 1
P-79227

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

REF: Facility Operating License
No. DPR-34

Docket No. 50-267

Dear Mr. Seyfrit:

Enclosed please find a copy of Reportable Occurrence Report No. 50-267/79-32/03-X-1, Supplement, 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. 50-267/79-32/03-X-1.

Very truly yours,

Don Warembourg
Don Warembourg
Manager, Nuclear Production

DW/alk

cc: Director, MIPC

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REPORT DATE: October 3, 1979
OCCURRENCE DATE: September 13, 1979

REPORTABLE OCCURRENCE 79-32
ISSUE 1
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FORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO
P. O. BOX 361
PLATTEVILLE, COLORADO 80651

REPORT NO. 50-267/79-32/03-X-1

Supplemental Report - Additional Information

IDENTIFICATION OF
OCCURRENCE:

During performance of the monthly check of the helium circulator seal malfunction pressure differential switches, it was discovered that four of twelve switch units either would not trip or tripped outside the limits specified in LCO 4.4.1, Table 4.4-3.

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

This report is submitted as a supplement to Reportable Occurrence Report No. 50-267/79-32/03-L-0, Preliminary, to provide additional information on the problems experienced with the helium circulator seal malfunction switches.

EVENT
DESCRIPTION:

While the reactor was in a shutdown condition, 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 Reportable Occurrence Report No. 50-267/79-32, Preliminary, and Reportable Occurrence Report No. 50-267/78-27, 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 water (positive buffer-mid-buffer) per Table 4.4-3.

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.

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

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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 readjusted to the proper trip points.

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

Three (3) of the pressure differential indicating switches were sent to ITT Barton in California for testing and evaluation to determine what can be done to correct this situation. The results will be reported in a future report.

The problem is under investigation.

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TABLE 1

		As Found		As Left	
		Increasing Trip Point	Decreasing Trip Point	Increasing Trip Point	Decreasing Trip Point
1A Circu- lator	PDIS-21149	75	Would Not Trip (1)	75	-6
	PDIS-21151	76	-60 (2)	76	-7
	PDIS-21153	75	-5	75	-5
1B Circu- lator	PDIS-21155	75	-5	75	-5
	PDIS-21157	75	-7	75	-7
	PDIS-21159	74	-20 (2)	74	-8
1C Circu- lator	PDIS-21150	77	-8	77	-8
	PIDS-21152	75	-8	75	-8
	PIDS-21154	78	Would Not Trip (1)	78	-5
1D Circu- lator	PDIS-21156	77	-6	77	-6
	PDIS-21158	76	-6	76	-6
	PDIS-21160	74	-4	74	-4

(1) Denotes switches which would not trip.

(2) Denotes switches which were out of tolerance.

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