



Public Service Company of Colorado

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

October 31, 1979
Fort St. Vrain
Unit No. 1
P-79253

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. 50-267/79-43/03-L-0, 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. 50-267/79-43/03-L-0.

Very truly yours,

Don Warembourg
Don Warembourg
Manager, Nuclear Production

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cc: Director, MIPC

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REPORT DATE: October 31, 1979

REPORTABLE OCCURRENCE 79-43

OCCURRENCE DATE: October 5, 1979

ISSUE 0

Page 1 of 4

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

REPORT NO. 50-267/79-43/03-L-0

Final

IDENTIFICATION OF
OCCURRENCE:

At 0800 hours on October 5, 1979, with the plant operating at approximately 35% thermal power and 84 MWe, the reactor dewpoint reading noted on the primary coolant moisture log was outside the acceptable limits of LCO 4.2.11.

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

EVENT
DESCRIPTION:

At 0800 hours on October 5, 1979, with the plant operating at approximately 35% thermal power and 84 MWe, reactor dewpoint per primary coolant moisture log was -5°F with average core outlet temperature of $1,169^{\circ}\text{F}$. Figure 4.2.11-1 of Technical Specification LCO 4.2.11, Loop Impurity Levels, Low Temperatures, outlines maximum reactor dewpoint limits as a function of average core outlet temperature. Per this figure, the maximum allowable reactor dewpoint at an average core outlet temperature of $1,169^{\circ}\text{F}$ is -16°F ; therefore, the observed reactor dewpoint of -5°F is outside the Technical Specification limits.

The 0600 hour primary coolant log reading was well within the acceptable limits of LCO 4.2.11. However, shortly after this reading was logged, the buffer helium dryer was bypassed due to cross-tower leakage. This resulted in moisture laden helium being supplied to the circulators. The 0800 hour reading was not acceptable, and a number of subsequent readings were in the limited acceptable area of Figure 4.2.11-1.

Reference Table I for a comparison of actual and allowable reactor dewpoint values versus average core outlet temperatures for this occurrence.

The buffer helium dryer was returned to service at approximately 1200 hours, and at 1600 hours, reactor dewpoint readings began to follow a decreasing trend. By 2000 hours, reactor dewpoint values were again within the acceptable range of LCO 4.2.11.

CAUSE
DESCRIPTION:

The limits of LCO 4.2.11, Figure 4.2.11-1, were exceeded as a result of bypassing the buffer helium dryer. This bypass was necessary to determine the source of cross-tower leakage. Investigation revealed that leakage was a result of a torn teflon seat on the disc of one of the reactivation valves.

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CORRECTIVE
ACTION:

The affected valve disc and two helium dryer effluent filters were replaced, and the dryer was returned to service. Reactor dewpoints began to decrease, and no further values outside the limits of LCO 4.2.11 were observed.

No further corrective action is anticipated or required.

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TABLE 1

Time	Average Core Outlet Tem- perature (°F)	Maximum Allowable Dewpoint (°F)	Actual Dewpoint (°F)
0600	1,170	-17	-40
0800	1,169	-16	-5*
1000	1,131	-11	-13**
1200	1,101	-6	-19**
1400	1,097	-5	-21
1600	1,099	-5	-12**
1800	1,090	-4	-17**
2000	1,095	-5	-21
2200	1,099	-5	-23

*Reading "not acceptable".

**Readings in "limited acceptable" range of Figure 4.2.11-1.

1274 291

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1271 292