



Public Service Company ^{of} Colorado

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

November 26, 1979
Fort St. Vrain
Unit No. 1
P-79280

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. 50-267/79-55, Preliminary, 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. 50-267/79-55.

Very truly yours,

Don Warembourg
Don Warembourg
Manager, Nuclear Production

DW/alk

cc: Director, MIPC

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REPORT DATE: November 26, 1979

REPORTABLE OCCURRENCE 79-55

OCCURRENCE DATE: October 26, 1979

ISSUE 0

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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. 50-267/79-55/03-L-0

Preliminary

IDENTIFICATION OF
OCCURRENCE:

On October 26, 1979, during performance of a scheduled surveillance test, it was found that a stuck open check valve (V-22370) would have prevented operation of helium circulators on boosted emergency condensate or fire water for motive force via the emergency condensate line. The reactor had been operated at power during the surveillance interval. LCO 4.2.19 requires that at least one fire water booster pump be operable during power operation. Contrary to this requirement the stuck open check valve rendered both fire water boosted pumps inoperable for helium circulator drive via the emergency condensate line during a period when the reactor must be assumed to have been at power. This is reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)2.

EVENT
DESCRIPTION:

On October 26, 1979, a surveillance test required by the Fort St. Vrain Technical Specifications (SR 5.2.7a-A) was being performed. As part of this test the helium circulators are operated with reduced pressure condensate supplied to the suction of the firewater booster pumps to simulate operation on firewater. Figure 1 is a simplified schematic of the piping arrangement of the emergency condensate header and the fire water booster pumps P-2109 and P-2110. With reference to Figure 1 the test portion being performed requires that the pressure of the condensate at the suction of P-2109/P-2110 is reduced to approximately 114 psig. The pump to be tested is then started and the speed of the circulator driven by the boosted water be verified as sufficient to give the required helium flow. When this was done on October 26, 1979, the circulator speed was less than the required value and pressure gauges installed at the pump suction and discharge indicated the same pressure. Investigation by an operator revealed no problem with the pump. When V-22370 was rapped sharply the valve was heard to close and circulator speed immediately increased to above the required value.

Since the reactor had been operated at power since the last previous demonstration of fire water booster pump operability it must be assumed that the reactor was operated at power without at least one operable firewater booster pump.

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CAUSE
DESCRIPTION:

The cause of this event was the failure of V-22370 to close when required to do so. Failure of the valve to close in turn rendered both fire water booster pumps inoperable for circulator drive using the emergency condensate supply line. Refer to Figure 1. By installation of the spool piece, (1), closing the NO valve, (2), and opening NC valves (3) and (4), the booster pumps could have been used to supply the circulator water turbine drains via the emergency feedwater header, (5).

CORRECTIVE
ACTION:

The immediate corrective action was to free the disc by rapping the valve body sharply.

The valve will be opened and inspected as soon as plant conditions permit. The results of this inspection will be reported in a supplement to this report as soon as they are known.

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Emergency
Condensate
Supply

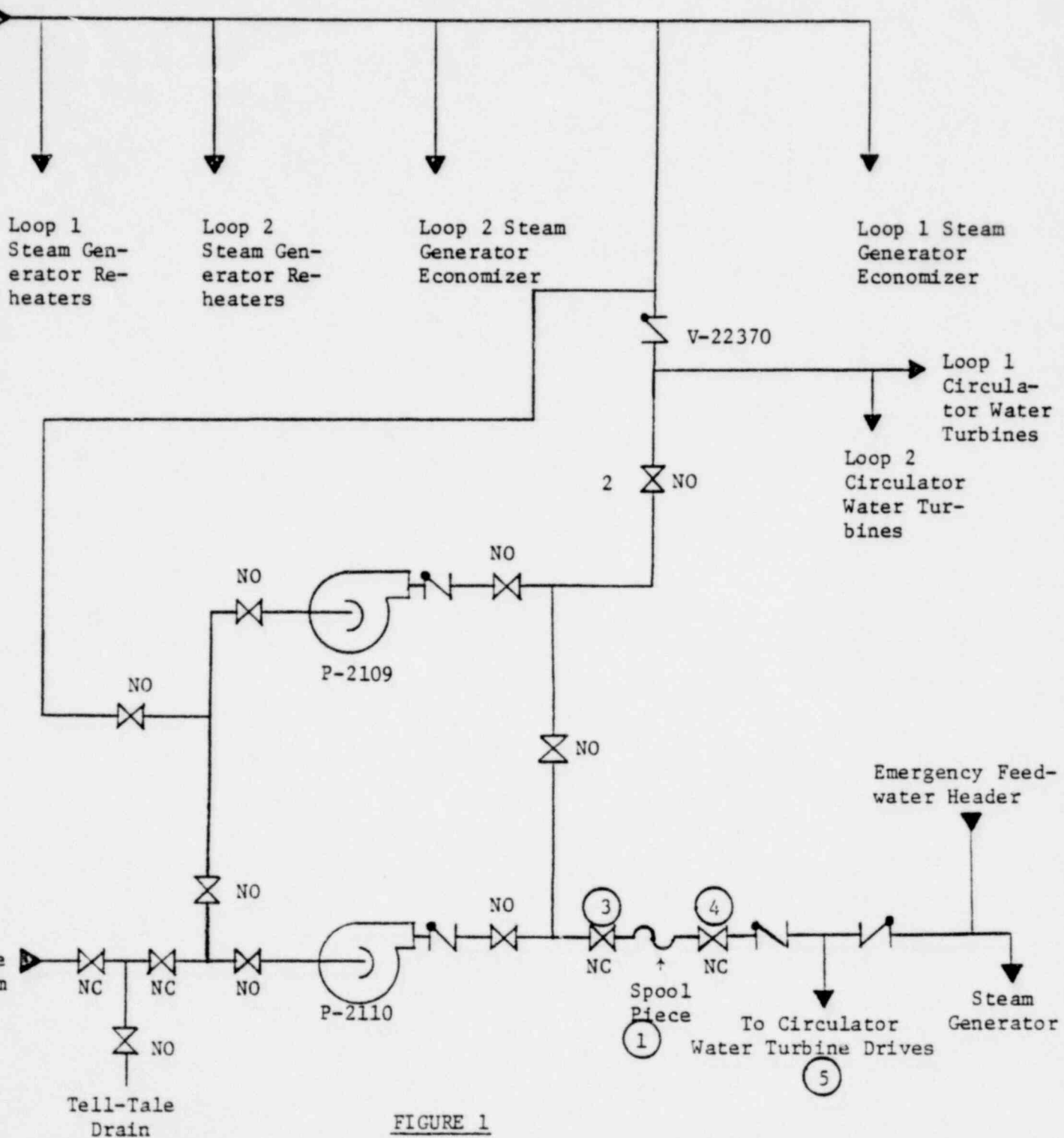


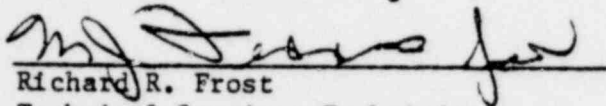
FIGURE 1

EMERGENCY CONDENSATE HEADER AND FIREWATER BOOSTER PUMPS

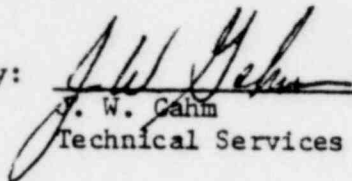
Normally Open - NO
Normally Closed - NC

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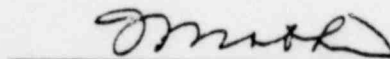
Prepared by:


Richard R. Frost
Technical Services Technician

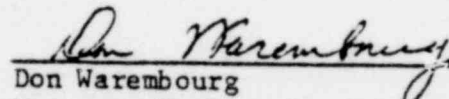
Reviewed by:


J. W. Cahm
Technical Services Supervisor

Reviewed by:


Frank M. Mathie
Operations Manager

Approved by:


Don Warembourg
Manager, Nuclear Production

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