LICENSEE EVENT REPORT

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CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
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[0]2] [From 0830 to 1830 hours on October 9, 1980, the plant was operated at power with
[0]3] emergency feedwater supply to Loop I helium circulator water turbine drives isolated
o 4 to repair a line leak downstream of PV-21243-1. This event was reported as operation
[0]5] in a degraded mode of LCO 4.2.2(a) and reported per Fort St. Vrain Technical
Specification AC 7.5.2(b)2. No effect on public health or safety. No accompanying
occurrence. Redundant systems available and operable. Similar Reports: 70 80-015,
08 80-023, 80-032.
7 8 9 SYSTEM CAUSE SUBCODE COMPONENT CODE SUBCODE SUBCODE O 9 7 8 9 10 11 12 12 13 OCCUPBENCE REVISION
17 LER/RO EVENT YEAR REPORT NO. 17 PE TYPE X NO. 17 PE
ACTION FUTURE EFFECT SHUTDOWN METHOD HOURS 22 ATTACHMENT SUBMITTED FORM SUB. PRIME COMP. SUPPLIER SUPP
The line leakage was due to erosion caused by high pressure/temperature water flow.
The Loop I emergency feedwater supply header was isolated, the defective portion of
piping replaced, and the system returned to service. Public Service Company Change
1 Notices abased walve bodies and downstream piping to stainless steel, and added
1 Notices changed valve bodies and downstream pring to be the corrective action is 1 1 flanges to facilitate any future repair work. No further corrective action is
7 8 9 anticipated or required.
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7 8 9 10 11 44 45 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION 39
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TYPE DESCRIPTION 1 9 Z 42 N/A 80
PUBLICITY AND DESCRIPTION 45
7 8 9 10
NAME OF PREPARED Jim Eggebroten (in Cactalin PHONE: (303) 785-2223

REPORT DATE: October 3, 1984

REPORTABLE OCCURRENCE 80-58

ISSUE 1

OCCURRENCE DATE: October 9, 1980

Page 1 of 4

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

REPORT NO. 50-267/80-58/03-X-1

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IDENTIFICATION OF OCCURRENCE:

From 0830 hours to 1830 hours on October 9, 1980, the plant was operated at power with the emergency feedwater header supply to Loop 1 circulators isolated.

This event constitutes operation in a degraded mode of LCO 4.2.2a) and was reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)2.

EVENT DESCRIPTION:

Fort St. Vrain Technical Specification LCO 4.2.2 specifies the conditions which must be met for circulator operability. Item a) of LCO 4.2.2 requires that a supply of emergency feedwater be available to drive the circulator water turbines. This LCO further allows for isolation of the emergency feedwater supply for up to 24 hours without the affected helium circulators being considered inoperable.

A pressure control system is provided to control emergency feedwater in each loop under flow or no-flow conditions. Refer to Figure 1 for a simplified diagram of this system. Emergency feedwater is supplied to Loop 1 and Loop 2 helium circulator water turbine drives via two separate flow paths (A and B). The main pressure control valves(1) and (2) are designed to control feedwater supply pressure under flow conditions. Additional pressure control valves ((3) and (4)) are provided to bleed off any leakage from the main valves to the turbine water drain tank under the no-flow conditions which normally exist.

On October 9, 1980, graveyard shift, with the plant operating at 27% thermal power and approximately 65 MWe. Operations personnel performing routine rounds observed a leak at the line between PV-21243-1 and the turbine water drain tank (see point C) of | Figure 1). The line was isolated at 0830 hours to begin repair work.

Separate valves (5 and 6) are provided for isolation of each loop. During isolation of the Loop 1 system, a 1/2" pipe nipple was replaced. Repairs were completed by 1830 hours, and the system returned to service within the 24 hours allowed by the LCO.

Had it been necessary during this period, the Loop 1 circulators could have been operated on water turbine drive at reduced speed utililizing a supply from the emergency condensate or fire water systems.

CAUSE DESCRIPTION:

| Component Failure.

| The line leakage was determined to be a result of erosion caused by | high pressure/temperature water.

CORRECTIVE ACTION:

The emergency feedwater header to the Loop I helium circulator water turbine drives was isolated, the defective portion of piping replaced, and the system returned to service within the time allowed by LCO 4.2.2.

| Public Service Company Change Notice No. 1421 installed bolted | flanges downstream of the pressure control valves to facilitate any | future valve or piping repair work.

| Public Service Company Change Notice No. 1687 changed the valve body of PV-21243-1 and PV-21244-1, and a portion of the downstream piping | from carbon steel to stainless steel, as stainless steel is much more | erosion resistant.

| No further corrective action is anticipated or required.

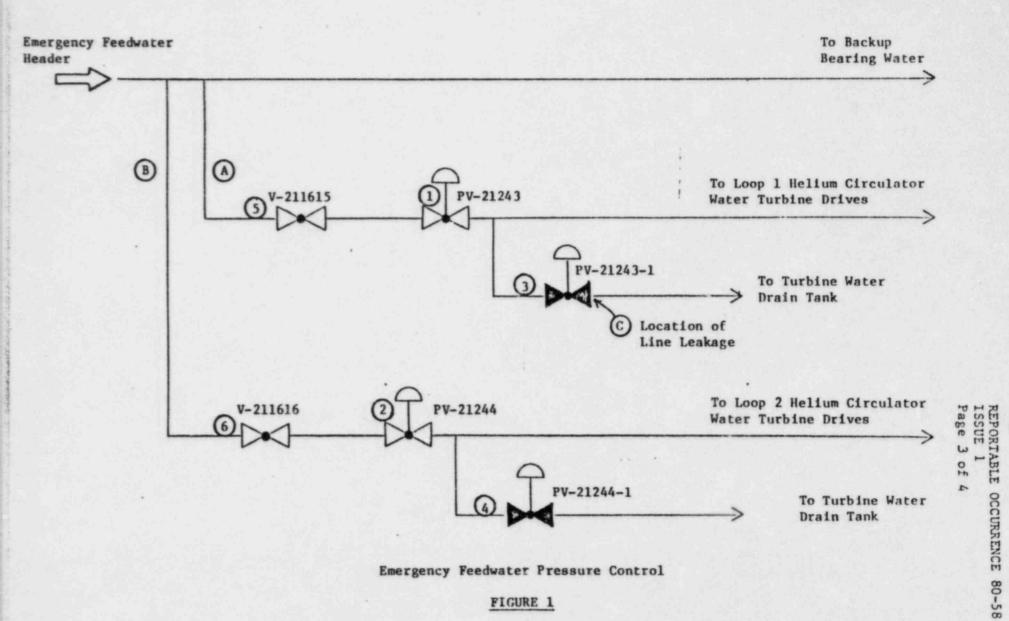


FIGURE 1

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