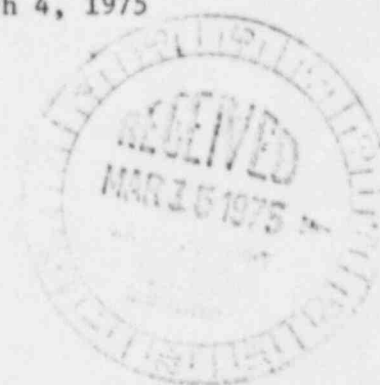


**Public Service Company of Colorado**

P. O. Box 361, Platteville, Colorado 80651

March 4, 1975



Mr. E. Morris Howard, Director  
Nuclear Regulatory Commission  
Region IV  
Office of Inspection & Enforcement  
611 Ryan Plaza Drive  
Suite 1000  
Arlington, Texas 76012

Dear Mr. Howard:

REF: Facility Operating License  
No. DPR-34

Docket No. 50-267

Enclosed please find a copy of Unusual Event Report No. 50-267/75/3,  
submitted per the requirements of the Technical Specifications.

Very truly yours,

*H. Larry Brey*

H. Larry Brey  
Superintendent-Operations  
Fort St. Vrain Nuclear  
Generating Station

HLB:il

cc: Mr. Angelo Giambusso

*50-267  
incident*

8311020383 770630  
PDR ADOCK 05000267  
S PDR

2855

COPY SENT REGION IV

REPORT DATE : February 22, 1975

UNUSUAL EVENT

OCCURRENCE DATE February 3, 1975

FORT ST. VRAIN NUCLEAR GENERATING STATION  
PUBLIC SERVICE COMPANY OF COLORADO  
P. O. BOX 361  
PLATTEVILLE, COLORADO 80651

REPORT NO. 50-267/75/3

Preliminary



IDENTIFICATION OF  
OCCURRENCE:

On February 3, 1975, a drop in the Loop 2 instrument bus voltage caused a Loop 1 Helium Circulator to trip. This is identified as an Unusual Event per Technical Specification definition AC 7.6.C.3.

CONDITIONS PRIOR  
TO OCCURRENCE:

_____ Steady State Power	_____ Routine Shutdown
_____ Hot Shutdown	_____ Routine Load Change
_____ Cold Shutdown	_____ Other (specify)
_____ Refueling Shutdown	_____
_____ Routine Startup	_____

The major plant parameters at the time of the event were as follows:

Power	PTR, _____ MWth
	ELECT, _____ MWe
Secondary Coolant	Pressure _____ psig
	Temperature <u>140°F Main Steam 500°F Reheat</u>
	Flow _____ #/hr.
Primary Coolant	Pressure _____ psig
	Temperature _____ °F Core Inlet
	_____ °F Core Outlet
	Flow * _____ #/hr.

\*A, B, D, Helium Circulators self turbinng between 300-500rpm  
C Helium Circulator at 2000rpm

DESCRIPTION OF  
OCCURRENCE:

At 1445 hours on February 3, 1975, a construction electrician accidentally grounded the Loop #2 instrument bus. Helium Circulators B, C and D Tripped off primarily due to a buffer/mid-buffer upset.

A fault on the Loop Instrument Bus should not have affected a Loop 1 Helium Circulator ("B" Helium Circulator).

APPARENT CAUSE  
OF OCCURRENCE:

<u>                    </u> Design	<u>                    </u> Unusual Service Cond. Including Environ.
<u>                    </u> Manufacture	<u>                    </u> Component Failure
<u>                    </u> Installation/ Const.	<u>      X      </u> Other (Specify)
<u>                    </u> Operator	<u>                    </u> The cause of this occurrence is
<u>                    </u> Procedure	<u>                    </u> presently unknown.

ANALYSIS OF  
OCCURRENCE:

The upset in the buffer system caused by the instrument bus voltage dip some how reflected from Loop 2 into Loop 1.

This incident along with a Helium Circulator upset which occurred on January 15, 1975, when firing of a Loop 2 bearing water accumulator to meet a Technical Specification Surveillance Test requirement caused an upset in the buffer system which could be seen on the Loop 1 Helium Circulators was presented to the Plant Operations Review Committee. The Committee-reviewed both incidents and determined them to be "Safety Significant".

The NFSC was appraised of the situation and has recommended that the system vendor be notified of the problems and that the rise-to-power testing program be delayed until the problems are satisfactorily resolved.

CORRECTIVE  
ACTION:

The Corrective Action has not, as yet, been determined. This will be transmitted with the "Final" Unusual Event correspondence for Unusual Event No. 50-267/75/1.

FAILURE DATA/SIMILAR REPORTED OCCURRENCES:

None

PROGRAMMATIC IMPACT:

Unknown

CODE IMPACT:

None

RECOMMENDED:

*H. L. Brey*

H. L. Brey, Superintendent, Operations  
Fort St. Vrain Nuclear Station

APPROVED:

*Frederic E. Swart*

Frederic E. Swart, Superintendent, Production  
Fort St. Vrain Nuclear Station

DATE: \_\_\_\_\_

DATE: *2/28/75*