



# Public Service Company <sup>of</sup> Colorado

P. O. Box 361, Platteville, Colorado 80651

November 18, 1975  
Fort St. Vrain  
Unit No. 1  
P-75006

IE FILE COPY

Mr. E. Morris Howard, Director  
Nuclear Regulatory Commission  
Region IV  
Office of Inspection and Enforcement  
Suite 1000  
Arlington, Texas 76012

REF: Facility Operating License  
No. DPR-34

Docket No. 50-267

Dear Mr. Howard:

Enclosed please find a copy of Unusual Event Report No. 50-267/75/20,  
Final, submitted per the requirements of the Technical Specifications.

Very truly yours,

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

FES/alk

cc: Mr. Roger S. Boyd

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REPORT DATE: November 18, 1975

UNUSUAL EVENT 75/20

Page 1 of 3

OCCURRENCE DATE: October 24, 1975

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

REPORT NO. 50-267/75/20

Final

IDENTIFICATION OF  
OCCURRENCE:

Reactor plant supply fan 1B breaker developed a fault which caused the reactor plant MCC #3 essential bus to be out of service during repairs. This is identified as an unusual event per Section 7.6, Non-Routine Reports, Part C, Paragraph 3 of the Fort St. Vrain Technical Specifications.

CONDITIONS PRIOR  
TO OCCURRENCE:

<u>Steady State Power</u>	<u>Routine Shutdown</u>
<u>Hot Shutdown</u>	<u>Routine Load Change</u>
<u>X Cold Shutdown</u>	<u>Other (specify)</u>
<u>Refueling Shutdown</u>	<u></u>
<u>Routine Startup</u>	<u></u>

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

Power	RTR <u>0</u>	MWth
	ELECT <u>0</u>	MWe
Secondary Coolant	Pressure <u>(1)</u>	psig
	Temperature <u>(1)</u>	°F
	Flow <u>100,000</u>	#/hr.
Primary Coolant	Pressure <u>0</u>	psig
	Temperature <u>100</u>	°F Core Inlet
	<u>100</u>	°F Core Outlet
	Flow 1 circulator at 4,000 RPM	

(1) Of no consequence.

DESCRIPTION OF  
OCCURRENCE:

1B reactor plant supply fan was being returned to service to permit removing 1A supply fan from service. The assistant reactor operator attempted to start 1B fan with the hand switch when the reactor plant, MCC #3, essential bus, breaker tripped.

APPARENT CAUSE  
OF OCCURRENCE:

_____ Design	_____ Unusual Service Cond. Including Environ.
_____ Manufacture	_____ Component Failure
_____ Installation/Const.	_____ X Other (specify)
_____ Operator	_____ <u>Loose electrical connection.</u>
_____ Procedure	_____

The apparent cause of this occurrence was a loose electrical connection on the bus side of the supply fan breaker.

## ANALYSIS OF OCCURRENCE:

The incident occurred when an attempt was made to start the fan. The starting current and the apparent loose connection caused a phase-to-phase fault on the supply side of the fan breaker. The resulting phase-to-phase fault caused the reactor plant essential bus #3 feed breaker trip and temporary loss of the bus.

CORRECTIVE  
ACTION:

The bus and motor were meggered and verified to be normal. The bus was repaired and the supply fan breaker was replaced with a spare breaker. The fan was started and run with no problems. There was no permanent loss of the essential bus and no danger to company personnel or the public. No further corrective action is required at this time.

FAILURE DATA/SIMILAR REPORTED OCCURRENCES:

None

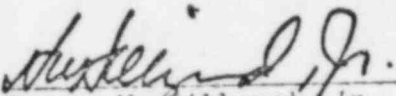
### PROGRAMMATIC IMPACT:

None

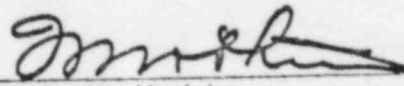
**CODE IMPACT:**

None

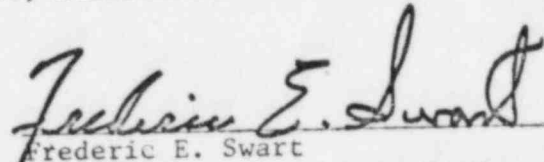
Submitted By:

  
Harvey W. Millyard, Jr.  
Technical Services Supervisor

Reviewed By:

  
Francis M. Mathie  
Superintendent, Maintenance

Approved By:

  
Frederic E. Swart  
Superintendent, Nuclear Production

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To Office of Inspection & Enforcement  
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Director of Nuclear Reactor Regulation  
Attn: Mr. Roger S. Boyd, Acting Director  
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Secretary, NFSC, Belleview  
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