



Public Service Company of Colorado

16805 Road 19 1/2, Platteville, Colorado 80651-9298

December 13, 1983
Fort St. Vrain
Unit No. 1
P-83400

Office of Inspection and Enforcement
ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: Facility Operating License
No. DPR-34

Docket No. 50-267

Dear Sir:

Enclosed please find our Monthly Operations Report for the month of November, 1983.

Very truly yours,

Don Warembourg by Milt McBride

Don Warembourg
Manager, Nuclear Production

DW/djm

Enclosure

cc: Mr. John T. Collins

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PUBLIC SERVICE COMPANY OF COLORADO
FORT ST. VRAIN NUCLEAR GENERATING STATION

MONTHLY OPERATIONS REPORT

NO. 118

November, 1983

This report contains the highlights of the Fort St. Vrain, Unit No. 1, activities operated under the provisions of the Nuclear Regulatory Commission Operating License DPR-34. This report is for the month of November, 1983.

1.0 NARRATIVE SUMMARY OF OPERATING EXPERIENCE AND MAJOR SAFETY RELATED MAINTENANCE

The plant was shutdown the first several days of November due to a reactor scram on October 29. The shutdown time was utilized to repair the "1B" electric driven feedpump discharge control valve, tighten marmon flange bolts, perform the "Loss of Outside Electrical Power" surveillance, and perform miscellaneous valve repairs.

The reactor was taken critical on November 3, and the generator placed in service on November 7. Power was raised to 70% between November 7 and November 13 and remained steady throughout the month, except for a short term runback on November 22, which was the direct result of surveillance testing.

"1C" boiler feedpump has continued to be a problem. The pump seized during turning gear operation. We have determined that pump alignment changes when piping temperatures change. Manufacturers representatives are investigating the problem history of this pump. Several things have and are being done in an attempt to return the pump to service.

Gas waste compressor 1A and 1B were rebuilt due to pumping problems. They are presently working satisfactorily.

The Auxiliary Cooling Method (ACM) diesel supercharger blower became inoperable, and the ACM became a possible shutdown item. A spare blower was located and the ACM was repaired and returned to service.

2.0 SINGLE RELEASES OF RADIOACTIVITY OR RADIATION EXPOSURE IN EXCESS OF 10% OF THE ALLOWABLE ANNUAL VALUE

None

3.0 INDICATION OF FAILED FUEL RESULTING FROM IRRADIATED FUEL EXAMINATIONS

None

4.0 MONTHLY OPERATING DATA REPORT

Attached

OPERATING DATA REPORT

DOCKET NO. 50-267

DATE December 12, 1983

COMPLETED BY Chuck Fuller

TELEPHONE (303) 785-2224

OPERATING STATUS

1. Unit Name: Fort St. Vrain
2. Reporting Period: 831101 thru 831130
3. Licensed Thermal Power (Mwt): 842
4. Nameplate Rating (Gross MWe): 342
5. Design Electrical Rating (Net MWe): 330
6. Maximum Dependable Capacity (Gross MWe): 342
7. Maximum Dependable Capacity (Net MWe): 330

NOTES

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

None

9. Power Level To Which Restricted, If Any (Net MWe): 231

10. Reasons for Restrictions, If Any: Restriction to 70% pending resolution of contractual matters.

	This Month	Year to Date	Cumulative
11. Hours in Reporting Period	<u>720</u>	<u>8,016</u>	<u>38,737</u>
12. Number of Hours Reactor Was Critical	<u>666.0</u>	<u>5,377.0</u>	<u>25,123.7</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>533.0</u>	<u>3,957.1</u>	<u>17,131.6</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>314,465.8</u>	<u>2,183,434.1</u>	<u>9,124,419.5*</u>
17. Gross Electrical Energy Generated (MWH)	<u>100,999</u>	<u>696,083</u>	<u>3,022,987</u>
18. Net Electrical Energy Generated (MWH)	<u>93,334</u>	<u>626,197</u>	<u>2,749,307</u>
19. Unit Service Factor	<u>76.8</u>	<u>49.4</u>	<u>44.2</u>
20. Unit Availability Factor	<u>76.8</u>	<u>49.4</u>	<u>44.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>39.3</u>	<u>23.7</u>	<u>21.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>39.3</u>	<u>23.7</u>	<u>21.5</u>
23. Unit Forced Outage Rate	<u>23.2</u>	<u>50.6</u>	<u>40.7</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>Refueling 1-15-84 through 4-13-84, 2,160 hours.</u>		

25. If Shut Down at End of Report Period, Estimated Date of Startup: N/A

26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY

Forecast

Achieved

N/A

N/A

INITIAL ELECTRICITY

N/A

N/A

COMMERCIAL OPERATION

N/A

N/A

* Includes a +7.5 E.F.P.D. Cycle 3 burnup adjustment.

AVERAGE DAILY UNIT POWER LEVEL

TSP-3
Attachment-3A
Issue 2
Page 1 of 1

Docket No. 50-267

Unit Fort St. Vrain

Date December 12, 1983

Completed By Chuck Fuller

Telephone (303) 385-2224

Month November, 1983

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0.0</u>
2	<u>0.0</u>
3	<u>0.0</u>
4	<u>0.0</u>
5	<u>0.0</u>
6	<u>0.0</u>
7	<u>0.0</u>
8	<u>51.3</u>
9	<u>54.6</u>
10	<u>123.3</u>
11	<u>145.9</u>
12	<u>166.0</u>
13	<u>184.8</u>
14	<u>192.5</u>
15	<u>192.5</u>
16	<u>192.8</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>192.4</u>
18	<u>192.1</u>
19	<u>192.0</u>
20	<u>186.8</u>
21	<u>191.0</u>
22	<u>178.6</u>
23	<u>188.3</u>
24	<u>188.8</u>
25	<u>188.7</u>
26	<u>188.9</u>
27	<u>188.5</u>
28	<u>188.1</u>
29	<u>187.9</u>
30	<u>188.7</u>
31	<u>N/A</u>

*Generator on line but no net generation.

UNIT SHUTDOWNS AND POWER REDUCTIONS

BUCKET NO. 50-267

UNIT NAME Fort St. Vrain

DATE December 12, 1983

COMPLETED BY Chuck Fuller

TELEPHONE (303)785-2224

REPORT MONTH November, 1983

NO.	DATE	TYPE	DURATION	REASON	METHOD OF SHUTTING DOWN REACTOR	LER #	SYSTEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
83-022	831101	S	167.0	B	3	N/A	ZZ	ZZZZZZ	Continued outage from October to complete scheduled surveillance testing.
83-023	831122	F	0.0	H	4	N/A	IB	INSTRU	Turbine runback caused by PPS pulse-test. Reactor remained critical.

REFUELING INFORMATION

1. Name of Facility	Fort St. Vrain Unit No 1
2. Scheduled date for next refueling shutdown.	January 15, 1984
3. Scheduled date for restart following refueling.	April 14, 1984
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?	Yes
If answer is yes, what, in general, will these be?	Use of type H-451 graphite.
If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Reference 10 CFR Section 50.59)?	-----
If no such review has taken place, when is it scheduled?	-----
5. Scheduled date(s) for submitting proposed licensing action and supporting information.	Not scheduled at this time; to be determined.
6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.	-----
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.	1482 HTGR fuel elements. 11 Spent HTGR fuel elements.

REFUELING INFORMATION (CONTINUED)

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.	Capacity is limited in size to about one-third of core (approximately 500 HTGR elements). No change is planned.
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.	1992 under Agreements AT(04-3)-633 and DE-SC07-79ID01370 between Public Service Company of Colorado, and General Atomic Company, and DOE.*

- * The 1992 estimated date is based on the understanding that spent fuel discharged during the term of the Agreements will be stored by DOE at the Idaho Chemical Processing Plant. The storage capacity has evidently been sized to accomodate eight fuel segments. It is estimated that the eighth fuel segment will be discharged in 1992.