

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

MONTHLY OPERATIONS REPORT

NO. 146

March, 1986

8604230247 860331
PDR ADOCK 05000267
R PDR

FORM 1000 02 1974

12/4
11

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 March, 1986.

1.0 NARRATIVE SUMMARY OF OPERATING EXPERIENCE AND MAJOR SAFETY RELATED MAINTENANCE

The reactor remained critical throughout the month of March, 1986. The rise in power continued as allowed by primary coolant moisture level. The Interlock Sequence Switch (ISS) was placed in the "low power" position on March 13, 1986. On March 18, 1986, all four helium circulators were brought to speed and the core was orificed for equal region outlet temperatures. A maximum power level of 12.9% was achieved on March 29, 1986. Power is limited to 35% power pending completion of Environmental Qualification work.

On March 13, 1986, during a planned surveillance inspection of PCRV tendons, approximately twenty-five gallons of water was found in Tendon CM 4.6 when the end cap was loosened. This event will be investigated and reported to the Nuclear Regulatory Commission in Licensee Event Report 84-005 (revised report).

Spent fuel shipping activities continued.

The turbine valves have been successfully stroked in anticipation of rolling the turbine in April.

Preparations are continuing for the upcoming Environmental Qualification shutdown.

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 April 10, 1986
COMPLETED BY Frank J. Novachek
TELEPHONE (303) 785-2224 ext. 201

OPERATING STATUS

1. Unit Name: Fort St. Vrain, No. 1
2. Reporting Period: 860301 through 860331
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
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): 115.5
10. Reasons for Restrictions, If Any: Limited to 35% power pending completion of Environmental Qualification.

NOTES

	This Month	Year to Date	Cumulative
11. Hours in Reporting Period	<u>744.0</u>	<u>2,160.0</u>	<u>59,185.0</u>
12. Number of Hours Reactor Was Critical	<u>744.0</u>	<u>1,090.5</u>	<u>29,171.7</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>0.0</u>	<u>18,468.0</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>43,760.6</u>	<u>45,734.6</u>	<u>9,940,817.8</u>
17. Gross Electrical Energy Generated (MWh)	<u>0.0</u>	<u>0.0</u>	<u>3,248,594.0</u>
18. Net Electrical Energy Generated (MWh)	<u>-4,125.0</u>	<u>-10,144.0</u>	<u>2,886,129.0</u>
19. Unit Service Factor	<u>0.0</u>	<u>0.0</u>	<u>31.2</u>
20. Unit Availability Factor	<u>0.0</u>	<u>0.0</u>	<u>31.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0</u>	<u>0.0</u>	<u>14.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0</u>	<u>0.0</u>	<u>14.8</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>0.0</u>	<u>59.6</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): Environmental Qualification, May 31, 1986, 2928 hours.

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

Units in Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	<u>N/A</u>	<u>N/A</u>
INITIAL ELECTRICITY	<u>N/A</u>	<u>N/A</u>
COMMERCIAL OPERATION	<u>N/A</u>	<u>N/A</u>

AVERAGE DAILY UNIT POWER LEVEL

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

Docket No. 50-267

Unit Fort St. Vrain No. 1

Date April 10, 1986

Completed By Frank J. Novachek

Telephone (303) 785-2224 ext. 201

Month March, 1986

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

*Generator on line but no net generation.

UNIT SHUTDOWNS AND POWER REDUCTIONS

BUCKET NO. 50-267
 UNIT NAME Fort St. Vrain No. 1
 DATE April 10, 1986
 COMPLETED BY Frank J. Novachek
 TELEPHONE (303) 785-2224 ext. 201

REPORT MONTH March, 1986

NO.	DATE	TYPE	DURATION	REASON	METHOD OF SHUTTING DOWN REACTOR	LER #	SYSTEM CODE	COMPONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRANCE
86-001860207		F	744.0	H	N/A	N/A	AB	XXXXXX	Primary Coolant Cleanup

REFUELING INFORMATION

1. Name of Facility	Fort St. Vrain Unit No. 1
2. Scheduled date for next refueling shutdown.	October 1, 1987
3. Scheduled date for restart following refueling.	November 1, 1987
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?	No
If answer is yes, what, in general, will these be?	-----
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)?	No
If no such review has taken place, when is it scheduled?	1986
5. Scheduled date(s) for submitting proposed licensing action and supporting information.	-----
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.	a) 1482 HTGR fuel elements b) 40 spent 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 accommodate eight fuel segments. It is estimated that the eighth fuel segment will be discharged in 1992.



Public Service

Public Service
Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

April 15, 1986
Fort St. Vrain
Unit No. 1
P-86287

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

Docket No. 50-267

SUBJECT: Monthly Operations
Report For March, 1986

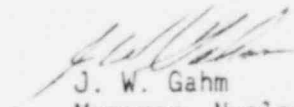
REFERENCE: Facility Operating
License No. DPR-34

Dear Sir:

Enclosed, please find the Monthly Operations Report for the month of March, 1986.

If you have any questions, please contact Mr. Mike Holmes at (303) 480-6960.

Sincerely,


J. W. Gahm
Manager, Nuclear Production
Fort St. Vrain Nuclear
Generating Station

Enclosure

cc: Mr. R. D. Martin,
Regional Administrator, Region IV

JWG:djm



Public Service

Public Service
Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

April 15, 1986
Fort St. Vrain
Unit No. 1
P-86287

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

Docket No. 50-267

SUBJECT: Monthly Operations
Report For March, 1986

REFERENCE: Facility Operating
License No. DPR-34

Dear Sir:

Enclosed, please find the Monthly Operations Report for the month of March, 1986.

If you have any questions, please contact Mr. Mike Holmes at (303) 480-6960.

Sincerely,

J. W. Gahm
Manager, Nuclear Production
Fort St. Vrain Nuclear
Generating Station

Enclosure

cc: Mr. R. D. Martin,
Regional Administrator, Region IV

JWG:djm

IE24
11