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## Public Service Company OF Colorado

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

January 10, 1983 Fort St. Vrain Unit No. 1 P-83014

JAN 26 1983

Director Office of Inspection and Enforcement U. S. Nuclear Regulatory Commission Washington, D.C. 20555

> Fort St. Vrain Nuclear Generating Station Public Service Company of Colorado Docket No. 50-267 Operating License DPR-34

Dear Sir:

Attached please find the December, 1982, Monthly Operating Information for the Fort St. Vrain Nuclear Generating Station.

Very truly yours,

Pon Wavenbourg by milt mendo

Don Warembourg Manager, Nuclear Production

DW/arh

Attachment

cc: Mr. John T. Collins Office of MIPC

4005

8302070491 830110 PDR ADOCK 0500026 R PDR

•				50.00		TSP-3 Attachment Issue 2 Page 1 of
	OPERATING DATA REPORT		DOCKET NO.	50-26		1082
			DATE		ry 10,	
		CO	MPLETED BY		McBri	
			TELEPHONE	(303)	785-2	224
OPE	RATING STATUS		NOTES			
1.	Unit Name: Fort St. Vrain					
2.	Reporting Period: 821201 through 8.	21231				
3.	Licensed Thermal Power (NWt):	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				
	If Changes Occur in Capacity Ratings (Items					
9.	Power Level To Which Restricted, If Any (Ne	t MWe): _231				
10.	Reasons for Restrictions, If Any:		pending	resolut	ion of	
	contractual matters		and the second se			
	contractual matters					
	contractual matters	This Month	Year to	o Date	Cumu	lative
11.	Bears in Reporting Period	This Month 744	Year to	o Date 8760	Cumu	lative 30721
11.						
	Howrs in Reporting Period	744		8760		30721
12.	Hoars in Reporting Period Number of Hours Reactor Was Critical	<u>744</u> 423.3		8760 5168.3		<u>30721</u> <u>19746.7</u> 0.0
12.	Hears in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours	744 423.3 0.0		8760 5168.3 0.0 3266.2		<u>30721</u> <u>19746.7</u> 0.0 13174.5
12. 13. 14.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line	744 423.3 0.0 0.0		8760 5168.3 0.0 3266.2 0.0		<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u>
12. 13. 14. 15.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours	744 423.3 0.0		8760 5168.3 0.0 3266.2 0.0 480.6	6.7	30721 19746.7 0.0 13174.5 0.0 89.425.4
12. 13. 14. 15. 16.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MMH)	744 423.3 0.0 0.0 0.0 	1.855	8760 5168.3 0.0 3266.2 0.0	6.7	<u>30721</u> <u>19746.7</u> 0.0 13174.5 0.0
12. 13. 14. 15. 16. 17.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH)	744 423.3 0.0 0.0 0.0 6,303.1	1.855	8760 5168.3 0.0 3266.2 0.0 480.6 548	6.7	<u>30721</u> <u>19746.7</u> <u>0.0</u> 13174.5 <u>0.0</u> 89.425.4 26.904
12. 13. 14. 15. 16. 17. 18.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH)	744 423.3 0.0 0.0 0.0 6,303.1 0 -4,234	1.855	8760 5168.3 0.0 3266.2 0.0 480.6 548 5,851	6.7	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> 89.425.4 <u>26.904</u> 23,110
12. 13. 14. 15. 16. 17. 18. 19.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor	744 423.3 0.0 0.0 0.0 -6,303.1 0 -4,234 0.0	1.855	8760 5168.3 0.0 3266.2 0.0 480.6 548 3,851 37.3	6.7	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u>
12. 13. 14. 15. 16. 17. 18. 19. 20.	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor	744 423.3 0.0 0.0 0.0 6,303.1 0 -4,234 0.0 0.0	1.855	8760 5168.3 0.0 3266.2 0.0 480.6 548 3,851 37.3 37.3	6.7	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u>
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> </ol>	Hears in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net)	744     423.3     0.0     0.0     0.0     -6,303.1     0     -4,234     0.0	1.855	8760 5168.3 0.0 3266.2 0.0 480.6 548 3,851 37.3 37.3 19.7	6.7	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>20.9</u>
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> </ol>	Hears in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate	744     423.3     0.0     0.0     0.0     0.0     -6,303.1     0     -4,234     0.0     0.0     0.0     0.0     0.0     0.0     0.0     100.0		8760 5168.3 0.0 3266.2 0.0 480.6 548 37.3 37.3 37.3 19.7 19.7 44.3	6.7 2.3 2,1	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u>
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> </ol>	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Availability Factor Unit Gapacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (Typ	744 423.3 0.0 0.0 0.0 6,303.1 0 -4,234 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1,855 635 568	8760 5168.3 0.0 3266.2 0.0 480.6 548 37.3 37.3 37.3 19.7 19.7 19.7 44.3 9: Plan	6.7 2.3 2,1	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u> very
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> <li>24.</li> </ol>	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (Typ 820101 - 11.4 hours. Surveillan	744 423.3 0.0 0.0 0.0 6,303.1 0 6,303.1 0.0 -4,234 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.855 	8760 5168.3 0.0 3266.2 0.0 480.6 548 37.3 37.3 37.3 19.7 19.7 19.7 44.3 9: Plan pugh 830	6.7 2.3 2,1 2,1 t reco	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u> very <u>504.0 hour</u>
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> <li>24.</li> <li>25.</li> </ol>	Hears in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Nonths (Typ 830101 - 11.4 hours. Surveillan If Shut Down at End of Report Period, Estim	744 423.3 0.0 0.0 0.0 6,303.1 0.0 -4,234 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1,855 635 568 	8760 5168.3 0.0 3266.2 0.0 480.6 548 37.3 37.3 37.3 19.7 19.7 19.7 44.3 ): Plan bugh 830 or is cr	6.7 2.3 2,1 1 t reco 412 - itical	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u> very <u>504.0 hour</u> <u>at low po</u>
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> <li>24.</li> <li>25.</li> </ol>	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (Typ 820101 - 11.4 hours. Surveillan If Shut Down at End of Report Period, Estim	744 423.3 0.0 0.0 0.0 6,303.1 0.0 -4,234 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.855 	8760 5168.3 0.0 3266.2 0.0 480.6 548 37.3 37.3 37.3 19.7 19.7 19.7 44.3 9: Plan ough 830 or is cr	6.7 2.3 2,1 2,1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u> very <u>504.0 hour</u> <u>at low po</u> eved
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> <li>24.</li> <li>25.</li> </ol>	Hears in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (Typ 820101 - 11.4 hours. Surveillan If Shut Down at End of Report Period, Estim Units In Test Status (Prior to Commercial G	744 423.3 0.0 0.0 0.0 6,303.1 0.0 -4,234 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	tion of Each) 30323 thro tup: Reacto Foreca	8760 5168.3 0.0 3266.2 0.0 480.6 548 3,851 37.3 37.3 19.7 19.7 19.7 44.3 0: Plan ough 830 or is cr st	6.7 2.3 2,1 2,1 1 2,1 412 412 412 412 412 412 Achi Achi	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u> very <u>504.0 hour</u> <u>at low po</u> <u>eved</u> <u>7/A</u>
<ol> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> <li>20.</li> <li>21.</li> <li>22.</li> <li>23.</li> <li>24.</li> <li>25.</li> </ol>	Hours in Reporting Period Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net) Unit Forced Outage Rate Shutdowns Scheduled Over Next 6 Months (Typ 820101 - 11.4 hours. Surveillan If Shut Down at End of Report Period, Estim	744 423.3 0.0 0.0 0.0 6,303.1 0.0 -4,234 0.0 0.0 0.0 0.0 0.0 0.0 100.0 0.0 100.0 se, Date, and Dura ace testing 83 mated Date of Star	1.855 	8760 5168.3 0.0 3266.2 0.0 480.6 548 37.3 37.3 37.3 19.7 19.7 44.3 0: Plan bugh 830 or is cr st 4	6.7 2.3 2.1 2.1 1 2.1 412 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>30721</u> <u>19746.7</u> <u>0.0</u> <u>13174.5</u> <u>0.0</u> <u>89.425.4</u> <u>26.904</u> <u>23,110</u> <u>42.9</u> <u>42.9</u> <u>42.9</u> <u>20.9</u> <u>20.9</u> <u>36.9</u> very <u>504.0 hour</u> <u>at low po</u> eved

AVERAGE DAILY UNIT POWER LEVEL

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

Docket No.	50-267
Unit _	Fort St. Vrain
Date _	January 10, 1983
Completed By	L. M. McBride
Telephone	(303) 785-2224

Month	Decemb	December, 1982					
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.

TSP-3 Attachment-3C Issue 2 Fage 1 of 1

UNIT SHUTDOWNS AND FOWER REDUCTONS

DOCKET NO.	50-267
UNIT NAME	Fort St. Vrain
DATE	January 10, 1983
OMPLETED BY	L. M. McBride
TELEPHONE	(303) 785-2224

REFORT MONTH December, 1982

80.	DATE	TYPE	DURATION	REASON	METHOD OF SHITTING Dr SON REACTOR	LER Ø	SYSTEM CODE	CONFONENT CODE	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
82-014	821201	F	744.0	Н	3	N/A	IBH	INSTRU	Loop 1 shutdown followed by reactor scram and turbine-generator trip on 820930. Outage continued due to primary coolant chemistry impurities and repair of steam generator.

## REFUELING INFORMATION

1.	Name of Facility.	Fort St. Vrain Unit No. 1
2.	Scheduled date for next refueling shutdown.	September 1, 1983
3.	Scheduled date for restart following refueling.	November 1, 1983
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 configura- tion been reviewed by your Plant Safety Review Committee to deter- mine whether any unreviewed safety questions are associated with the core reload (Reference 10CFR 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 considera- tions associated with refueling, e.g., new or different fuel de- sign or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating pro- cedures.	· · · · · · · · · · · · · · · · · · ·
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
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.

## REFUELING INFORMATION (CONTINUED)

discharged to the spent fuel	1992 under Agreements AT(04-3)-633 and DE-SC07-79ID01370 between Public Service Company of Colorado, General Atomic Company, and DOE.*
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\* 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.