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June 7, 1996

Beaver Valley Power Station  
Unit 1 - Docket No. 50-334, License No. DPR-66  
Unit 2 - Docket No. 50-412, License No. NPF-73  
Monthly Operating Report

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In accordance with Appendix A, Technical Specifications, the Monthly Operating Report is submitted for Unit 1 and Unit 2 for the month of May, 1996.

Respectfully,

T. P. Noonan  
Division Vice President,  
Nuclear Operations /  
Plant Manager

DTJ/slp

Enclosures

cc: NRC Regional Office  
King of Prussia, PA

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PDR ADOCK 05000334  
R PDR



The Nuclear Professionals

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NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 1

MAY 1996

May 1 through May 4	The Unit began the report period in Mode 5 while preparations for startup from the eleventh refueling outage continued.
May 5	Mode 4 was entered at 1235 hours.
May 6	Mode 3 was entered at 0615 hours.
May 7 through May 9	The Unit remained in Mode 3 while preparations for entry into Mode 2 continued.
May 10	Reactor startup was commenced and Mode 2 was entered at 0830 hours. The reactor was taken critical at 1028 hours.
May 11	Mode 1 was entered at 1750 hours. The Main Unit Generator was synchronized to the electrical grid at 1838 hours completing the Unit's eleventh refueling outage.
May 12	At 0337 hours, the output breakers were opened and the Unit was removed from service to permit planned Turbine overspeed trip testing. At 0543 hours, the output breakers were closed synchronizing the Unit to the electrical grid following successful Turbine overspeed trip testing. Output was then escalated to approximately 29% for fuel preconditioning.
May 13	Following completion of a core flux map, a load increase towards approximately 75% output was commenced at 2330 hours.
May 14	An output of approximately 70% was achieved at 2000 hours.
May 15	The Unit remained at approximately 70% output for fuel preconditioning.
May 16 thru May 17	Following completion of a core flux map, a load increase towards approximately 100% output was commenced at 0946 hours.
May 18	The Unit achieved approximately 100% output at 0200 hours.
May 19 thru May 30	The Unit operated at a nominal value of 100% output.
May 31	The Unit experienced a reactor trip from 100% output at 2114 hours following a turbine trip which occurred during solid state protection system (SSPS) slave relay testing of a turbine trip function. The Unit was subsequently stabilized in Mode 3 at 2133 hours.

# OPERATING DATA REPORT

DOCKET NO.: 50-334  
 REPORT DATE: 06/04/96  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-7553

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: MAY 1996
3. LICENSED THERMAL POWER (MWt): 2652
4. NAMEPLATE RATING (Gross MWe): 923
5. DESIGN ELECTRICAL RATING (Net MWe): 835
6. MAX. DEPENDABLE CAPACITY (Gross MWe): 860
7. MAX. DEPENDABLE CAPACITY (Net MWe): 810

Notes

8. IF CHANGES OCCUR IN CAPACITY RATINGS SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (Net MWe): None
10. REASONS FOR RESTRICTIONS, IF ANY: N/A

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	3647.0	176063.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	514.7	2481.6	115933.4
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	480.5	2447.4	113799.5
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1103853.0	6044812.0	274966874.5
17. GROSS ELECT. ENERGY GEN. (MWH):	363373.0	1999473.0	88813490.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	334853.0	1874003.0	83040827.0
19. UNIT SERVICE FACTOR: (PERCENT)	64.6	67.1	66.4
20. UNIT AVAILABILITY FACTOR: (PERCENT)	64.6	67.1	66.4
21. UNIT CAPACITY FACTOR (MDC): PCT	55.6	63.4	60.6
22. UNIT CAPACITY FACTOR (DER): PCT	53.9	61.5	58.7
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.6	0.1	15.2

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 06/02/96

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

FORECAST	ACHIEVED
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334  
UNIT BVPS Unit 1  
DATE June 3, 1996  
COMPLETED BY David T. Jones  
TELEPHONE (412) 393-7553

MONTH May 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>734</u>
2	<u>0</u>	18	<u>810</u>
3	<u>0</u>	19	<u>806</u>
4	<u>0</u>	20	<u>811</u>
5	<u>0</u>	21	<u>821</u>
6	<u>0</u>	22	<u>829</u>
7	<u>0</u>	23	<u>828</u>
8	<u>0</u>	24	<u>828</u>
9	<u>0</u>	25	<u>830</u>
10	<u>0</u>	26	<u>830</u>
11	<u>17</u>	27	<u>831</u>
12	<u>114</u>	28	<u>830</u>
13	<u>165</u>	29	<u>831</u>
14	<u>449</u>	30	<u>831</u>
15	<u>593</u>	31	<u>732</u>
16	<u>641</u>		

## INSTRUCTIONS

On this form, list the average daily unit power level MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

## UNIT SHUTDOWNS AND POWER REDUCTIONS (≥20%)

REPORT MONTH May 1996

Docket No. 50-334  
 Unit Name BVPS Unit #1  
 Date June 3, 1996  
 Completed By David T. Jones  
 Telephone (412) 393-7553

No.	Date	Type1	Duration (Hours)	Reason2	Method of Shutting Down Reactor3	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective Action to Prevent Recurrence
4	960501	S	258.6	C	4	N/A	RC	FUELXX	The Unit remained shutdown to complete its eleventh refueling outage.
5	960512	S	2.1	B	9	N/A	HA	TURBIN	The Unit was removed from service to permit turbine overspeed trip testing (the reactor remained critical).
6	960531	F	2.8	H	3	1-96-008	HA	INSTRU	Reactor tripped due to a turbine trip from 100% output during solid state protection system (SSPS) slave relay testing of a turbine trip function.

1  
 F-Forced  
 S-Scheduled

2  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Exam  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

3  
 Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Cont'd. from Previous Month  
 5-Reduction  
 9-Other

4  
 Exhibit F-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG0161).

5  
 Exhibit N-Same Source.

NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 2

MAY 1996

May 1 through May 18	The Unit operated at a nominal value of 100% output.
May 19	With unusually warm atmospheric conditions present, a load reduction to approximately 99% output was commenced at 1525 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 2215 hours.
May 20	With unusually warm atmospheric conditions still present, a load reduction to approximately 98% output was commenced at 1450 hours to stabilize condenser hotwell conditions
May 21	Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 0700 hours.
May 22 through May 31	The Unit continued to operate at a nominal value of 100% output for the remainder of the report period.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-412  
UNIT BVPS Unit 2  
DATE June 3, 1996  
COMPLETED BY David T. Jones  
TELEPHONE (412) 393-7553

MONTH May 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>833</u>	17	<u>821</u>
2	<u>830</u>	18	<u>813</u>
3	<u>825</u>	19	<u>807</u>
4	<u>825</u>	20	<u>804</u>
5	<u>831</u>	21	<u>817</u>
6	<u>832</u>	22	<u>829</u>
7	<u>832</u>	23	<u>825</u>
8	<u>828</u>	24	<u>827</u>
9	<u>818</u>	25	<u>833</u>
10	<u>815</u>	26	<u>833</u>
11	<u>813</u>	27	<u>835</u>
12	<u>830</u>	28	<u>835</u>
13	<u>834</u>	29	<u>836</u>
14	<u>832</u>	30	<u>836</u>
15	<u>833</u>	31	<u>835</u>
16	<u>830</u>		

## INSTRUCTIONS

On this form, list the average daily unit power level MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.



# OPERATING DATA REPORT

DOCKET NO.: 50-412  
 REPORT DATE: 06/04/96  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-7553

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: MAY 1996
3. LICENSED THERMAL POWER (MWt): 2652
4. NAMEPLATE RATING (Gross MWe): 923
5. DESIGN ELECTRICAL RATING (Net MWe): 836
6. MAX. DEPENDABLE CAPACITY (Gross MWe): 870
7. MAX. DEPENDABLE CAPACITY (Net MWe): 820

Notes

8. IF CHANGES OCCUR IN CAPACITY RATINGS SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (Net MWe): None
10. REASONS FOR RESTRICTIONS, IF ANY: N/A

	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	3647.0	74846.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	3647.0	65128.8
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	744.0	3625.5	64720.1
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1963670.0	9277421.0	161101424.0
17. GROSS ELECT. ENERGY GEN. (MWH):	647797.0	3074137.0	52507466.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	615408.0	2917081.0	49636604.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	99.4	86.5
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	99.4	86.5
21. UNIT CAPACITY FACTOR (MDC): PCT	100.9	97.5	80.5
22. UNIT CAPACITY FACTOR (DER): PCT	98.9	95.7	79.3
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	0.6	2.5

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):  
THE UNIT IS SCHEDULED TO SHUTDOWN FOR ITS SIXTH REFUELING OUTAGE ON  
AUGUST 30, 1996. THE REFUELING OUTAGE IS SCHEDULED TO LAST FOR 45 DAYS.

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: \_\_\_\_\_

26. 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>



UNIT SHUTDOWNS AND POWER REDUCTIONS ( $\geq 20\%$ )REPORT MONTH May 1996

Docket No. 50-412  
 Unit Name BVPS Unit #2  
 Date June 3, 1996  
 Completed By David T. Jones  
 Telephone (412) 393-7553

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
NOVE									

<sup>1</sup>  
 F-Forced  
 S-Scheduled

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Exam  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Cont'd. from Previous Month  
 5-Reduction  
 9-Other

<sup>4</sup>  
 Exhibit F-Instructions for  
 Preparation of Data Entry Sheets  
 for Licensee Event Report (LER) File  
 (NUREG0161).

<sup>5</sup>  
 Exhibit H-Same Source.