



**Duquesne Light**

Nuclear Group  
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April 8, 1994

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 March, 1994.

Respectfully,

T. P. Noonan  
Division Vice President  
Nuclear Operations

DTJ/mmg

Enclosures

cc: NRC Regional Office  
King of Prussia, PA

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NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 1

MARCH 1994

- March 1 through March 4 The Unit operated at a nominal value of 100% output.
- March 5 The Unit continued to operate at a nominal value of 100% output. At 1608 hours the Unit reduced output to approximately 95% for testing of turbine governor valve controls. At 1920 hours the Unit was returned to a nominal value of 100% output following satisfactory completion of testing.
- March 6 through March 14 The Unit operated at a nominal value of 100% output.
- March 15 The Unit continued to operate at a nominal value of 100% output. At 1415 hours the Unit commenced a load reduction to approximately 32% output in order to repair a broken bolt on the actuator for the "B" Main Feedwater Regulating Valve. Approximately 32% output was achieved at 2003 hours.
- March 16 Following completion of repairs to the "B" Main Feedwater Regulating Valve, the Unit commenced a return to full power at 1430 hours. The Unit achieved approximately 100% output at 2300 hours.
- March 17 through March 24 The Unit operated at a nominal value of 100% output.
- March 25 The Unit continued to operate at a nominal value of 100% output. At 2100 hours the Unit reduced output to approximately 97% during a routine maintenance surveillance procedure to complete a Channel II  $\Delta T/T_{avg}$  calibration. The power reduction was performed as a precaution to avoid a turbine runback and potential plant trip with one out of three turbine runback signals already tripped by the calibration procedure and a second channel known to experience occasional noise spiking at higher power levels.
- March 26 At 0100 hours the Unit returned to a nominal value of 100% output following completion of the Channel II  $\Delta T/T_{avg}$  calibration.
- March 27 through March 31 The Unit operated at a nominal value of 100% output.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334  
 UNIT EVPS Unit 1  
 DATE April 5, 1994  
 COMPLETED BY David T. Jones  
 TELEPHONE (412) 393-7553

MONTH March 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>824</u>	17	<u>821</u>
2	<u>822</u>	18	<u>825</u>
3	<u>820</u>	19	<u>821</u>
4	<u>821</u>	20	<u>833</u>
5	<u>817</u>	21	<u>817</u>
6	<u>825</u>	22	<u>825</u>
7	<u>821</u>	23	<u>821</u>
8	<u>817</u>	24	<u>825</u>
9	<u>829</u>	25	<u>821</u>
10	<u>821</u>	26	<u>813</u>
11	<u>816</u>	27	<u>825</u>
12	<u>817</u>	28	<u>825</u>
13	<u>829</u>	29	<u>825</u>
14	<u>821</u>	30	<u>825</u>
15	<u>642</u>	31	<u>817</u>
16	<u>363</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.: 50-334  
 REPORT DATE: 04/05/94  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: MARCH 1994
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
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8. IF CHANGES OCCUR IN CAPACITY RATINGS SINCE LAST REPORT, GIVE REASONS:

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

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	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	2160.0	157056.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	1924.4	101455.3
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	744.0	1919.7	99462.9
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1920450.0	4996055.0	238401531.5
17. GROSS ELECT. ENERGY GEN. (MWH):	631550.0	1630690.0	76788213.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	595770.0	1533140.0	71752660.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	88.9	65.3
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	88.9	65.3
21. UNIT CAPACITY FACTOR (MDC): PCT	98.9	87.6	58.9
22. UNIT CAPACITY FACTOR (DER): PCT	95.9	85.0	57.2
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	11.1	15.7

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):  
THE UNIT IS SCHEDULED TO SHUTDOWN FOR ITS TENTH REFUELING OUTAGE ON  
OCTOBER 7, 1994. THE REFUELING OUTAGE IS SCHEDULED TO LAST FOR 70 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 (≥20%)

Docket No. 50-334  
 Unit Name BVPS Unit #1  
 Date April 5, 1994  
 Completed By David T. Jones  
 Telephone (412) 393-7553

REPORT MONTH MARCH 1994

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
4	940315	F	0	A	5	N/A	HH	VALVEX	Unit reduced output to approximately 32% to repair a broken bolt on the actuator for the "B" Main Feedwater Regulating Valve.

<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.

NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 2

MARCH 1994

March 1  
through  
March 31

The Unit operated at a nominal value of 100% output during the entire report period.



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-412  
 UNIT EVPS Unit 2  
 DATE April 5, 1994  
 COMPLETED BY David T. Jones  
 TELEPHONE (412) 393-7553

MONTH March 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>838</u>	17	<u>843</u>
2	<u>837</u>	18	<u>841</u>
3	<u>838</u>	19	<u>841</u>
4	<u>834</u>	20	<u>837</u>
5	<u>838</u>	21	<u>836</u>
6	<u>835</u>	22	<u>844</u>
7	<u>835</u>	23	<u>837</u>
8	<u>841</u>	24	<u>835</u>
9	<u>842</u>	25	<u>846</u>
10	<u>842</u>	26	<u>844</u>
11	<u>843</u>	27	<u>842</u>
12	<u>840</u>	28	<u>846</u>
13	<u>837</u>	29	<u>846</u>
14	<u>839</u>	30	<u>846</u>
15	<u>837</u>	31	<u>845</u>
16	<u>844</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: 04/05/94  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: MARCH 1994
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
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8. IF CHANGES OCCUR IN CAPACITY RATINGS SINCE LAST REPORT, GIVE REASONS:

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

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	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	2160.0	55839.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	2160.0	47490.3
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	744.0	2160.0	47156.6
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1957207.0	5682268.0	115914153.4
17. GROSS ELECT. ENERGY GEN. (MWH):	656464.0	1909445.0	37561450.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	625125.0	1816672.0	35466951.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	100.0	84.5
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	100.0	84.5
21. UNIT CAPACITY FACTOR (MDC): PCT	102.5	102.6	77.0
22. UNIT CAPACITY FACTOR (DER): PCT	100.5	100.6	76.0
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	0.0	2.8

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

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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 (≥20%)

Docket No. 50-412  
 Unit Name BVPS Unit #2  
 Date April 3, 1994  
 Completed By David T. Jones  
 Telephone (412) 393-7553

REPORT MONTH MARCH 1994

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
NONE									

<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.