



Nuclear Group  
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September 9, 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 August, 1994.

Respectfully,

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

DTJ/mmg

Enclosures

cc: NRC Regional Office  
King of Prussia, PA



The Nuclear Professionals

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NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 1

AUGUST 1994

August 1	The Unit was in Mode 3 at the beginning of the report period following an outage which completed repair of the Main Transformer and cleaning of debris from the fouled "C" Recirculation Spray Heat Exchanger. Mode 2 was entered at 1651 hours and the reactor was taken critical at 1732 hours.
August 2	Mode 1 was entered at 0345 hours. At 0438 hours the Main Unit Generator was synchronized to the electrical grid and a gradual increase in power was commenced. The Unit remained at less than 50% output while allowing the quadrant power tilt ratio (QPTR) to return to specification.
August 3	Following a satisfactory QPTR, the Unit commenced an increase in power towards 100% output at 0536 hours. After achieving an output of approximately 97%, a load reduction to approximately 65% output was commenced at 2136 hours to repair a seal leak on the "B" Main Feedwater Pump.
August 4 through August 6	The Unit remained at approximately 65% output while repair of the "B" Main Feedwater Pump continued.
August 7	Following repair of the "B" Main Feedwater Pump, the Unit commenced an increase in power towards 100% output at 1825 hours. The Unit achieved approximately 100% output at 2400 hours.
August 8 through August 31	The Unit operated at a nominal value of 100% output for the remainder of the report period.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334  
UNIT BVPS Unit 1  
DATE Sept. 2, 1994  
COMPLETED BY David T. Jones  
TELEPHONE (412) 393-7553

MONTH August 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>833</u>
2	<u>246</u>	18	<u>817</u>
3	<u>575</u>	19	<u>817</u>
4	<u>504</u>	20	<u>800</u>
5	<u>517</u>	21	<u>813</u>
6	<u>517</u>	22	<u>813</u>
7	<u>549</u>	23	<u>821</u>
8	<u>813</u>	24	<u>817</u>
9	<u>821</u>	25	<u>817</u>
10	<u>825</u>	26	<u>817</u>
11	<u>817</u>	27	<u>813</u>
12	<u>808</u>	28	<u>804</u>
13	<u>800</u>	29	<u>825</u>
14	<u>808</u>	30	<u>821</u>
15	<u>821</u>	31	<u>821</u>
16	<u>817</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: 09/02/94  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-7553

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: AUGUST 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

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	5831.0	160727.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	726.5	4096.9	103627.8
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	715.4	4065.5	101608.7
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1759891.0	10423251.0	243828727.5
17. GROSS ELECT. ENERGY GEN. (MWH):	573530.0	3395900.0	78553423.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	538640.0	3171510.0	73391030.0
19. UNIT SERVICE FACTOR: (PERCENT)	96.2	69.7	65.1
20. UNIT AVAILABILITY FACTOR: (PERCENT)	96.2	69.7	65.1
21. UNIT CAPACITY FACTOR (MDC):PCT	89.4	67.1	58.8
22. UNIT CAPACITY FACTOR (DER):PCT	86.7	65.1	57.1
23. UNIT FORCED OUTAGE RATE: (PERCENT)	3.8	30.3	16.5

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

The Unit has been rescheduled to shutdown for its tenth refueling outage on January 2, 1995. The refueling outage is scheduled to last for 60 days.

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

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

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

FORECAST	ACHIEVED
N/A	N/A
N/A	N/A
N/A	N/A

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

REPORT MONTH AUGUST 1994

Docket No. 50-334  
 Unit Name BVPS Unit #1  
 Date Sept. 6, 1994  
 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
10	940801	F	28.6	H	4	N/A	SA	HTEXCH	Subsequent to the reactor trip on 7/19/94 and in parallel with repair of the Main Transformer, the Unit also remained shutdown to facilitate cleaning of debris from the fouled "C" Recirculation Spray Heat Exchanger.
11	940803	F	0	A	5	N/A	HH	PUMPXX	During power escalation to 100% output following the outage above, the Unit reduced output from approx. 97% to approx. 65% to repair a seal leak on the "B" Main Feedwater Pump.

<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

AUGUST 1994

August 1  
through  
August 31

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

# AVERAGE DAILY UNIT POWER LEVEL

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

MONTH August 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>813</u>	17	<u>818</u>
2	<u>812</u>	18	<u>815</u>
3	<u>812</u>	19	<u>813</u>
4	<u>810</u>	20	<u>807</u>
5	<u>826</u>	21	<u>815</u>
6	<u>831</u>	22	<u>816</u>
7	<u>824</u>	23	<u>821</u>
8	<u>819</u>	24	<u>818</u>
9	<u>821</u>	25	<u>810</u>
10	<u>827</u>	26	<u>809</u>
11	<u>822</u>	27	<u>807</u>
12	<u>813</u>	28	<u>806</u>
13	<u>807</u>	29	<u>822</u>
14	<u>817</u>	30	<u>825</u>
15	<u>827</u>	31	<u>818</u>
16	<u>823</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: 09/06/94  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-7553

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: AUGUST 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

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	5831.0	59510.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	5565.2	50895.5
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	744.0	5552.0	50548.6
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1958831.0	14572388.0	124804273.0
17. GROSS ELECT. ENERGY GEN. (MWH):	640582.0	4842237.0	40494242.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	607831.0	4593715.0	38243994.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	95.2	84.9
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	95.2	84.9
21. UNIT CAPACITY FACTOR (MDC):PCT	99.6	96.1	77.9
22. UNIT CAPACITY FACTOR (DER):PCT	97.7	94.2	76.9
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	4.8	3.2

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:

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

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

FORECAST  
 N/A  
 N/A  
 N/A

ACHIEVED  
 N/A  
 N/A  
 N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS ( $\geq 20\%$ )REPORT MONTH AUGUST 1994

Docket No. 50-412  
 Unit Name BVPS Unit #2  
 Date Sept. 6, 1994  
 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
NONE									

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 H-Same Source.