



Duquesne Light

Nuclear Group
P.O. Box 4
Shippingport, PA 15077-0004

Telephone (412) 393-6000

June 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 May, 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

MAY 1994

- May 1 through May 5 The Unit operated at a nominal value of 100% output.
- May 6 The Unit continued to operate at a nominal value of 100% output. At 2120 hours a Unit shutdown was commenced due to the ongoing status of repair efforts to a small pipe leak on the "A" Train Reactor Plant River Water Supply Line to the Diesel Generator.
- May 7 At 0828 hours the Unit was taken off-line. Mode 2 was entered at 0835 hours, Mode 3 was entered at 0918 hours and Mode 4 was entered at 2145 hours as the Unit continued to cool down to Mode 5 while repair efforts and inspections of the Reactor Plant River Water Line continued.
- May 8 Mode 5 was entered at 1122 hours while repair efforts and inspections of Reactor Plant River Water line continued.
- May 9 through May 17 The Unit remained in Mode 5 while repair efforts and inspections of the Reactor Plant River Water Line continued.
- May 18 The Unit remained in Mode 5 until 1730 hours when heatup commenced to Mode 4 following completion of repairs and inspections of the Reactor Plant River Water line. Mode 4 was entered at 1800 hours.
- May 19 The Unit remained in Mode 4 until 0400 hours when heatup commenced to Mode 3. Mode 3 was entered at 0505 hours.
- May 20 The reactor was taken critical at 0548 hours. At 1452 hours the Main Unit Generator was synchronized to the electrical grid and a gradual increase in power was commenced. With the Unit at approximately 55% output, the quadrant power tilt ratio (QPTR) was determined out of specification. At 2130 hours, the Unit reduced output to less than 50% per Technical Specifications.
- May 21 The Unit remained at approximately 49% output while allowing xenon to build up in the reactor core to correct the QPTR. At 1225 hours the Unit commenced an increase in output to 100% following a satisfactory QPTR.
- May 22 The Unit achieved approximately 100% output at 1140 hours.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

MAY 1994
(continued)

- May 23 The Unit operated at a nominal value of 100% output.
- May 24 At 1331 hours the Unit experienced a load rejection to approximately 48% output. This was caused by a loose card in the Turbine Electrohydraulic Control (EHC) circuitry. Power was subsequently stabilized at approximately 70% output. The card connections were repaired and the Unit was returned to approximately 100% output at 2115 hours.
- May 25
through
May 29 The Unit operated at a nominal value of 100% output.
- May 30 The Unit continued to operate at a nominal value of 100% output. At 1714 hours, the "B" Cooling Tower Pump was shutdown due to high motor bearing temperatures. With one Cooling Tower Pump out of service and unusually warm atmospheric conditions present, a load reduction to approximately 98.5% output was commenced to stabilize condenser hotwell conditions. Once the outside air cooled down and conditions in the condenser hotwell improved, the Unit returned to full power at 2000 hours.
- May 31 The Unit continued to operate at a nominal value of 100% output. With one Cooling Tower Pump out of service and continuing warm weather, periodic load reductions were commenced at 0818 hours to stabilize condenser hotwell conditions. A minimum load reduction to approximately 98.3% output was achieved at 1700 hours. Once conditions in the condenser hotwell had improved, the Unit returned to full power at 2130 hours and 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 June 3, 1994
 COMPLETED BY David T. Jones
 TELEPHONE (412) 393-7553

MONTH May 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>821</u>	17	<u>0</u>
2	<u>825</u>	18	<u>0</u>
3	<u>829</u>	19	<u>0</u>
4	<u>821</u>	20	<u>69</u>
5	<u>829</u>	21	<u>425</u>
6	<u>817</u>	22	<u>800</u>
7	<u>95</u>	23	<u>813</u>
8	<u>0</u>	24	<u>750</u>
9	<u>0</u>	25	<u>817</u>
10	<u>0</u>	26	<u>817</u>
11	<u>0</u>	27	<u>813</u>
12	<u>0</u>	28	<u>825</u>
13	<u>0</u>	29	<u>321</u>
14	<u>0</u>	30	<u>817</u>
15	<u>0</u>	31	<u>804</u>
16	<u>0</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: 06/03/94
 COMPLETED BY: DAVID T. JONES
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: MAY 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	3623.0	158519.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	434.8	3078.2	102609.1
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	425.6	3064.3	100607.5
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1064786.0	7953520.0	241358996.5
17. GROSS ELECT. ENERGY GEN. (MWH):	348020.0	2593560.0	77751083.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	318410.0	2433830.0	72653350.0
19. UNIT SERVICE FACTOR: (PERCENT)	57.2	84.6	65.4
20. UNIT AVAILABILITY FACTOR: (PERCENT)	57.2	84.6	65.4
21. UNIT CAPACITY FACTOR (MDC): PCT	52.8	82.9	59.1
22. UNIT CAPACITY FACTOR (DER): PCT	51.3	80.5	57.3
23. UNIT FORCED OUTAGE RATE: (PERCENT)	42.8	15.4	15.8

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 ($\geq 20\%$)

REPORT MONTH MAY 1994

Docket No. 50-334
 Unit Name BVPS Unit #1
 Date June 3, 1994
 Completed By David T. Jones
 Telephone (412) 393-7553

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
5	940506	F	318.4	A	1	1-94-004	WA	PIPEXX	The Unit was shutdown due to the ongoing status of repair efforts to a small pipe leak on the "A" Train Reactor Plant River Water supply line to the Diesel Generator.
6	940524	F	0	H	5	N/A	HA	ELECON	The Unit experienced a load rejection to approximately 48% output caused by a loose card in the Turbine Electrohydraulic Control (EHC) circuitry.

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)

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 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.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

MAY 1994

May 1
through
May 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 June 3, 1994
 COMPLETED BY David T. Jones
 TELEPHONE (412) 393-7553

MONTH May 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>844</u>	17	<u>844</u>
2	<u>845</u>	18	<u>843</u>
3	<u>843</u>	19	<u>842</u>
4	<u>842</u>	20	<u>838</u>
5	<u>841</u>	21	<u>833</u>
6	<u>842</u>	22	<u>832</u>
7	<u>844</u>	23	<u>832</u>
8	<u>842</u>	24	<u>834</u>
9	<u>837</u>	25	<u>834</u>
10	<u>841</u>	26	<u>836</u>
11	<u>837</u>	27	<u>843</u>
12	<u>841</u>	28	<u>839</u>
13	<u>840</u>	29	<u>835</u>
14	<u>837</u>	30	<u>830</u>
15	<u>830</u>	31	<u>825</u>
16	<u>841</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: 06/03/94
 COMPLETED BY: DAVID T. JONES
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: MAY 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
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	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	3623.0	57302.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	3623.0	48953.3
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	744.0	3623.0	48619.6
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1960148.0	9537469.0	119769354.4
17. GROSS ELECT. ENERGY GEN. (MWH):	656107.0	3199861.0	38851866.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	623620.0	3043555.0	36693834.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	100.0	84.8
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	100.0	84.8
21. UNIT CAPACITY FACTOR (MDC): PCT	102.2	102.4	77.6
22. UNIT CAPACITY FACTOR (DER): PCT	100.3	100.5	76.6
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):

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%)

REPORT MONTH MAY 1994

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

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	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
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