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August 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 July, 1994.

Respectfully,

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

DTJ/mmg

Enclosures

cc: NRC Regional Office
King of Prussia, PA

160054



The Nuclear Professionals

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PDR ADOCK 05000334
R PDR

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NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

JULY 1994

| | |
|-------------------------------|--|
| July 1 through July 4 | The Unit was in Mode 5 at the beginning of the report period to complete replacement of the Main Transformer. |
| July 5 | Following replacement of the Main Transformer, the Unit commenced to heatup and entered Mode 4 at 2121 hours. |
| July 6 | Mode 3 was entered at 1250 hours. |
| July 7 | The Unit remained in Mode 3 in preparation for entering Mode 2. |
| July 8 | Mode 2 was entered at 0139 hours and the reactor was taken critical at 0251 hours. Mode 1 was entered at 0915 hours. At 0918 hours the Main Unit Generator was synchronized to the electrical grid and a gradual increase in power was commenced. |
| July 9 | The Unit continued a gradual increase in power towards 100% output. |
| July 10 | The Unit achieved approximately 100% output at 0600 hours. |
| July 11 through July 18 | The Unit operated at a nominal value of 100% output. |
| July 19 | The Unit continued to operate at a nominal value of 100% output until 1610 hours when a reactor trip occurred due to a generator and turbine trip caused by an electrical fault at the Main Transformer. The electrical fault was caused by a flashover of the "c" phase high voltage bushing following activation of the transformer deluge spray system. The Unit was subsequently stabilized in Mode 3. |
| July 20 through July 24 | The Unit remained in Mode 3 to facilitate repairs to the Main Transformer. |
| July 25 | At 0100 hours a cool down was commenced due to low river water flow through the "A" Train Recirculation Spray Heat Exchangers. The cool down to Mode 5 was initiated to allow cleaning of debris from the fouled "C" Recirculation Spray Heat Exchanger which occurred during River Water Pump testing. |
| July 26 | Mode 4 was entered at 1007 hours. Mode 5 was entered at 1806 hours. |

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

JULY 1994

(continued)

July 27
through
July 30

The Unit remained in Mode 5 to facilitate cleaning of the "C" Recirculation Spray Heat Exchanger while repairs also continued on the Main Transformer.

July 31

Following completion of repairs to the Main Transformer and cleaning of the "C" Recirculation Spray Heat Exchanger, the Unit commenced to heatup and entered Mode 4 at 0750 hours. The Unit entered Mode 3 at 1416 hours and remained in Mode 3 for the remainder of the report period.

AVERAGE DAILY UNIT POWER LEVEL

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

MONTH July 1994

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | <u>0</u> | 17 | <u>821</u> |
| 2 | <u>0</u> | 18 | <u>813</u> |
| 3 | <u>0</u> | 19 | <u>543</u> |
| 4 | <u>0</u> | 20 | <u>0</u> |
| 5 | <u>0</u> | 21 | <u>0</u> |
| 6 | <u>0</u> | 22 | <u>0</u> |
| 7 | <u>0</u> | 23 | <u>0</u> |
| 8 | <u>140</u> | 24 | <u>0</u> |
| 9 | <u>499</u> | 25 | <u>0</u> |
| 10 | <u>746</u> | 26 | <u>0</u> |
| 11 | <u>825</u> | 27 | <u>0</u> |
| 12 | <u>813</u> | 28 | <u>0</u> |
| 13 | <u>813</u> | 29 | <u>0</u> |
| 14 | <u>808</u> | 30 | <u>0</u> |
| 15 | <u>813</u> | 31 | <u>0</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.: 50-324
 REPORT DATE: 08/03/94
 COMPLETED BY: David T. Jones
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: JULY 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 | 5087.0 | 159983.0 |
| 12. NO. OF HRS. REACTOR WAS CRITICAL: | 277.3 | 3370.4 | 102901.3 |
| 13. REACTOR RESERVE SHUTDOWN HOURS: | 0.0 | 0.0 | 4482.8 |
| 14. HOURS GENERATOR WAS ON LINE: | 270.9 | 3350.1 | 100893.3 |
| 15. UNIT RESERVE SHUTDOWN HOURS: | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GEN. (MWH): | 670158.0 | 8663360.0 | 242068836.5 |
| 17. GROSS ELECT. ENERGY GEN. (MWH): | 215830.0 | 2822370.0 | 77979893.0 |
| 18. NET ELECTRICAL ENERGY GEN. (MWH): | 191770.0 | 2632870.0 | 72852390.0 |
| 19. UNIT SERVICE FACTOR: (PERCENT) | 36.4 | 65.9 | 64.9 |
| 20. UNIT AVAILABILITY FACTOR: (PERCENT) | 36.4 | 65.9 | 64.9 |
| 21. UNIT CAPACITY FACTOR (MDC): PCT | 31.8 | 63.9 | 58.7 |
| 22. UNIT CAPACITY FACTOR (DER): PCT | 30.9 | 62.0 | 56.9 |
| 23. UNIT FORCED OUTAGE RATE: (PERCENT) | 63.6 | 34.1 | 16.6 |

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 14, 1994. The refueling outage is scheduled to last for 70 days.

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 08/02/94

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 JULY 1994

Docket No. 50-334
 Unit Name BVPS Unit #1
 Date August 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 |
|-----|--------|-------------------|---------------------|---------------------|--|-------------------------------|-----------------------------|--------------------------------|---|
| 8 | 940701 | F | 177.3 | A | 4 | 1-94-005 | EG | TRANSF | The Unit remained shutdown to complete replacement of the Main Transformer. |
| 9 | 940719 | F | 295.8 | A | 3 | 1-94-008 | EG | TRANSF | A reactor trip occurred while at 100% output due to a generator and turbine trip caused by an electrical fault at the Main Transformer. The electrical fault was caused by a flashover of the "C" phase high voltage bushing following activation of the transformer deluge spray system. |

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.

NAPRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

JULY 1994

| | |
|------------------------------|---|
| July 1 through July 4 | The Unit operated at a nominal value of 100% output. |
| July 5 | With unusually warm atmospheric conditions present, periodic load reductions to a minimum output of approximately 97% were commenced at 1238 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit returned to full power at 2400 hours. |
| July 6 | With continuing warm atmospheric conditions still present, periodic load reductions to a minimum output of approximately 92.5% were commenced at 1129 hours to stabilize condenser hotwell conditions. |
| July 7 | Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 0252 hours. With continuing warm atmospheric conditions present later in the day, periodic load reductions to a minimum output of approximately 97% were commenced at 1435 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 2200 hours. |
| July 8 | With continuing warm atmospheric conditions still present, periodic load reductions to a minimum output of approximately 97.5% were commenced at 1300 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 2230 hours. |
| July 9 through July 19 | The Unit operated at a nominal value of 100% output. |
| July 20 | With unusually warm atmospheric conditions present, periodic load reductions to a minimum output of approximately 94% were commenced at 1205 hours to stabilize condenser hotwell conditions. |
| July 21 | Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 0108 hours. With continuing warm atmospheric conditions present later in the day, periodic load reductions to a minimum output of approximately 98.5% were commenced at 1819 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 2000 hours. |

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

JULY 1994
(Continued)

| | |
|-------------------------------|---|
| July 22 through July 28 | The Unit operated at a nominal value of 100% output. |
| July 29 | At 1200 hours the Unit reduced output to approximately 95% to facilitate repair of the outlet drain valve for the "A" Separator Drain Pump Discharge Level Control Valve. |
| July 30 | Following completion of repairs, the Unit returned to a nominal value of 100% output at 0300 hours. |
| July 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. 50-412
UNIT BVPS Unit 2
DATE August 2, 1994
COMPLETED BY David T. Jones
TELEPHONE (412) 393-7553

MONTH July 1994

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | <u>825</u> | 17 | <u>817</u> |
| 2 | <u>819</u> | 18 | <u>813</u> |
| 3 | <u>822</u> | 19 | <u>813</u> |
| 4 | <u>814</u> | 20 | <u>788</u> |
| 5 | <u>800</u> | 21 | <u>807</u> |
| 6 | <u>779</u> | 22 | <u>814</u> |
| 7 | <u>802</u> | 23 | <u>813</u> |
| 8 | <u>804</u> | 24 | <u>812</u> |
| 9 | <u>809</u> | 25 | <u>916</u> |
| 10 | <u>824</u> | 26 | <u>820</u> |
| 11 | <u>828</u> | 27 | <u>823</u> |
| 12 | <u>821</u> | 28 | <u>823</u> |
| 13 | <u>815</u> | 29 | <u>806</u> |
| 14 | <u>815</u> | 30 | <u>819</u> |
| 15 | <u>812</u> | 31 | <u>817</u> |
| 16 | <u>819</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: 08/03/94
 COMPLETED BY: David T. Jones
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: JULY 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 | 5087.0 | 58766.0 |
| 12. NO. OF HRS. REACTOR WAS CRITICAL: | 744.0 | 4821.2 | 50151.5 |
| 13. REACTOR RESERVE SHUTDOWN HOURS: | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR WAS ON LINE: | 744.0 | 4808.0 | 49804.6 |
| 15. UNIT RESERVE SHUTDOWN HOURS: | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GEN. (MWH): | 1954090.0 | 12613557.0 | 122845442.0 |
| 17. GROSS ELECT. ENERGY GEN. (MWH): | 637778.0 | 4201655.0 | 39853660.0 |
| 18. NET ELECTRICAL ENERGY GEN. (MWH): | 604923.0 | 3985884.0 | 37636163.0 |
| 19. UNIT SERVICE FACTOR: (PERCENT) | 100.0 | 94.5 | 84.8 |
| 20. UNIT AVAILABILITY FACTOR: (PERCENT) | 100.0 | 94.5 | 84.8 |
| 21. UNIT CAPACITY FACTOR (MDC):PCT | 99.2 | 95.6 | 77.6 |
| 22. UNIT CAPACITY FACTOR (DER):PCT | 97.3 | 93.7 | 76.6 |
| 23. UNIT FORCED OUTAGE RATE: (PERCENT) | 0.0 | 5.5 | 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 ($\geq 20\%$)

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

REPORT MONTH JULY 1994

| 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
 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.