

# OPERATING DATA REPORT

DOCKET NO.: 50-334  
 REPORT DATE: 10/12/87  
 COMPLETED BY: P.A. SMITH  
 TELEPHONE: (412) 643-1823

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: SEPTEMBER 1987
3. LICENSED THERMAL POWER (MWt): 2660
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:          | 720.0      | 6551.0       | 100079.0    |
| 12. NO. OF HRS. REACTOR WAS CRITICAL:   | 720.0      | 5612.7       | 57457.5     |
| 13. REACTOR RESERVE SHUTDOWN HOURS:     | 0.0        | 0.0          | 4482.8      |
| 14. HOURS GENERATOR WAS ON LINE:        | 720.0      | 5596.3       | 55927.6     |
| 15. UNIT RESERVE SHUTDOWN HOURS:        | 0.0        | 0.0          | 0.0         |
| 16. GROSS THERMAL ENERGY GEN. (MWH):    | 1752375.0  | 14215750.0   | 132740156.5 |
| 17. GROSS ELECT. ENERGY GEN. (MWH):     | 564890.0   | 4625240.0    | 42498470.0  |
| 18. NET ELECTRICAL ENERGY GEN. (MWH):   | 529320.0   | 4340630.0    | 39645433.0  |
| 19. UNIT SERVICE FACTOR: (PERCENT)      | 100.0      | 85.4         | 58.3        |
| 20. UNIT AVAILABILITY FACTOR: (PERCENT) | 100.0      | 85.4         | 58.3        |
| 21. UNIT CAPACITY FACTOR (MDC): PCT     | 90.8       | 81.8         | 52.3        |
| 22. UNIT CAPACITY FACTOR (DER): PCT     | 88.0       | 79.4         | 50.7        |
| 23. UNIT FORCED OUTAGE RATE: (PERCENT)  | 0.0        | 4.5          | 20.3        |

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):  
 SIXTH REFUELING, DECEMBER 11, 1987, 65 DAYS

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

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

|                      | FORECAST | ACHIEVED |
|----------------------|----------|----------|
| INITIAL CRITICALITY  | N/A      | N/A      |
| INITIAL ELECTRICITY  | N/A      | N/A      |
| COMMERCIAL OPERATION | N/A      | N/A      |

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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-324

UNIT 375 Mw

DATE October 13, 1971

COMPLETED BY P.A. Smith

TELEPHONE (412) 343-1825

MONTH September

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|
| 1   | 292                                    |
| 2   | 800                                    |
| 3   | 804                                    |
| 4   | 791                                    |
| 5   | 383                                    |
| 6   | 376                                    |
| 7   | 371                                    |
| 8   | 650                                    |
| 9   | 797                                    |
| 10  | 799                                    |
| 11  | 802                                    |
| 12  | 791                                    |
| 13  | 796                                    |
| 14  | 804                                    |
| 15  | 803                                    |
| 16  | 796                                    |

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|
| 17  | 788                                    |
| 18  | 100                                    |
| 19  | 796                                    |
| 20  | 804                                    |
| 21  | 804                                    |
| 22  | 804                                    |
| 23  | 804                                    |
| 24  | 804                                    |
| 25  | 788                                    |
| 26  | 800                                    |
| 27  | 804                                    |
| 28  | 808                                    |
| 29  | 792                                    |
| 30  | 800                                    |
| 31  | -                                      |

## INSTRUCTIONS

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

(9/77)

## UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No.

50-134

Unit Name

RVPS Unit #1

Date

October 13, 1987

Completed by

P.A. Smith

Telephone

(412) 643-1825

Report Month September

| 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  |
|-----|--------|--------|------------------|----------|-----------------------------------|-------------------------|---------------|------------------|--|
| 16  | 8/0901 | F      | 0                | A        | 4                                 | N/A                     | HJ            | VALVEX           | The Unit entered the month at a reduced power level as repair work on the heater drain tank level control valve (LCV-SD-106A) continued. Repair work was completed and power ascension was initiated at 1745 hours on the 1st. |
| 17  | 8/0906 | S      | 0                | H        | 5                                 | N/A                     | ZZ            | ZZZZZZ           | At 2200 hours at the request of Company System Operations, began a 50% load reduction. Began power ascension at 0310 hours on the 8th.   |

1 F Forced

S Scheduled

Reason

A Equipment Failure (Explain)

B Maintenance or Test

C Refueling

D Regulatory Restriction

E Operator Training &amp; License Examination

F Administrative

G Operational Error (Explain)

H Other (Explain)

3

Method:

1-Manual

2-Manual Scram

3-Automatic Scram

4-Continued From Previous Month

5-Reduction

9-Other

4

Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) (NURIC, 0161)

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Exhibit F-Summary

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# OPERATING DATA REPORT

DOCKET NO.: 50-412  
 REPORT DATE: 10/12/87  
 COMPLETED BY: P.A. SMITH  
 TELEPHONE: (412) 643-1825

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: SEPTEMBER 1987
3. LICENSED THERMAL POWER (MWt): 2660
4. NAMEPLATE RATING (Gross MWe): 923
5. DESIGN ELECTRICAL RATING (Net MWe): 836
6. MAX. DEPENDABLE CAPACITY (Gross MWe): 885
7. MAX. DEPENDABLE CAPACITY (Net MWe): 833

Notes

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

9. POWER LEVEL WHICH RESTRICTED, IF ANY (Net MWe):
10. REASONS FOR RESTRICTIONS, IF ANY: PLANT IN STARTUP AND POWER ASCENSION TEST PHASE

|   | THIS MONTH | YEAR TO DATE | CUMULATIVE |
|---|------------|--------------|------------|
| 11. HOURS IN REPORTING PERIOD:          | 720.0      | 1066.0       | 1066.0     |
| 12. NO. OF HRS. REACTOR WAS CRITICAL:   | 343.9      | 603.6        | 603.6      |
| 13. REACTOR RESERVE SHUTDOWN HOURS:     | 0.0        | 0.0          | 0.0        |
| 14. HOURS GENERATOR WAS ON LINE:        | 266.0      | 438.5        | 438.5      |
| 15. UNIT RESERVE SHUTDOWN HOURS:        | 0.0        | 0.0          | 0.0        |
| 16. GROSS THERMAL ENERGY GEN. (MWH):    | 309627.0   | 498282.0     | 498282.0   |
| 17. GROSS ELECT. ENERGY GEN. (MWH):     | 78800.0    | 107400.0     | 107400.0   |
| 18. NET ELECTRICAL ENERGY GEN. (MWH):   | 59737.0    | 76529.0      | 76529.0    |
| 19. UNIT SERVICE FACTOR: (PERCENT)      | N/A        | N/A          | N/A        |
| 20. UNIT AVAILABILITY FACTOR: (PERCENT) | N/A        | N/A          | N/A        |
| 21. UNIT CAPACITY FACTOR (MDC): PCT     | N/A        | N/A          | N/A        |
| 22. UNIT CAPACITY FACTOR (DER): PCT     | N/A        | N/A          | N/A        |
| 23. UNIT FORCED OUTAGE RATE: (PERCENT)  | N/A        | N/A          | N/A        |

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

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

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

|                      | FORECAST | ACHIEVED |
|----------------------|----------|----------|
| INITIAL CRITICALITY  | N/A      | 08/04/87 |
| INITIAL ELECTRICITY  | N/A      | 08/17/87 |
| COMMERCIAL OPERATION | 10/15/87 | N/A      |

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-412

UNIT BVPS Unit 2

DATE October 13, 198

COMPLETED BY P.A. Smith

TELEPHONE (412) 643-1825

MONTH September

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|
| 1   | <u>30</u>                              |
| 2   | <u>142</u>                             |
| 3   | <u>147</u>                             |
| 4   | <u>167</u>                             |
| 5   | <u>328</u>                             |
| 6   | <u>340</u>                             |
| 7   | <u>341</u>                             |
| 8   | <u>203</u>                             |
| 9   | <u>3</u>                               |
| 10  | <u>0</u>                               |
| 11  | <u>176</u>                             |
| 12  | <u>0</u>                               |
| 13  | <u>0</u>                               |
| 14  | <u>0</u>                               |
| 15  | <u>0</u>                               |
| 16  | <u>0</u>                               |

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|
| 17  | <u>0</u>                               |
| 18  | <u>0</u>                               |
| 19  | <u>0</u>                               |
| 20  | <u>0</u>                               |
| 21  | <u>0</u>                               |
| 22  | <u>0</u>                               |
| 23  | <u>0</u>                               |
| 24  | <u>0</u>                               |
| 25  | <u>35</u>                              |
| 26  | <u>178</u>                             |
| 27  | <u>482</u>                             |
| 28  | <u>18</u>                              |
| 29  | <u>0</u>                               |
| 30  | <u>149</u>                             |
| 31  | <u>-</u>                               |

## INSTRUCTIONS

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

(9/77)



## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-412  
 UNIT NAME BVPS Unit 2  
 DATE October 13, 1987  
 COMPLETED BY P.A. Smith  
 TELEPHONE (412) 643-1825

REPORT MONTH September

| 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   | 870901 | F      | 13.7             | A        | 4                                 | N/A                     | HA            | TURBIN           | The Unit entered the month off-line following a turbine trip on August 31, 1987. The Unit was synchronized to the grid at 1343 hours on the 1st.   |
| 9   | 870901 | F      | .3               | A        | 9                                 | N/A                     | HA            | TURBIN           | At 1345 hours a turbine trip occurred, caused by anti-motoring. The Unit was synchronized to the grid at 1404 hours on the 1st.                    |
| 10  | 870908 | S      | 0                | B        | 5                                 | N/A                     | ZZ            | ZZZZZZ           | At 0606 hours a planned power reduction from 50 percent to 30 percent occurred to support testing.   |
| 11  | 870909 | F      | 17.1             | A        | 3                                 | 87-020                  | CC            | HTEXCH           | At 0130 hours a reactor trip occurred on low level in the "A" steam generator. The Unit was synchronized to the grid at 1835 hours on the 9th.     |
| 12  | 870909 | S      | 30.4             | B        | 3                                 | N/A                     | ZZ            | ZZZZZZ           | At 2203 hours a planned reactor trip occurred during the "Station Blackout" test. The Unit was synchronized to the grid at 0428 hours on the 11th. |

- 1 F Faced  
 S Scheduled
- 2 Reason  
 A Equipment Failure (if explain)  
 B Maintenance or Test  
 C Refueling  
 D Regulatory Restriction  
 E Operational Training & License Examination  
 F Administrative  
 G Operational Error (if explain)  
 H Other (if explain)
- 3 Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continued From Previous Month  
 5-Reduction  
 9-Other
- 4 Exhibit G - Instructions for Preparation of Data Entry Sheets for License Event Report (FER) File (NRC, 0161)
- 5 Exhibit I - Same Source

09/77)

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DCKET NO. 50-412  
 UNIT NAME BYPS Unit 2  
 DATE October 13, 1987  
 COMPLETED BY P.A. Smith  
 TELEPHONE (412) 643-1825

REPORT MONTH September

| 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   |
|-----|--------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| 13  | 870911 | S                 | 329.7            | B                   | 1  | N/A                     | CC                       | VALVEX                      | The Unit was taken off-line at 2038 hours for a Pressurizer Safety Valve mini-outage. The Unit returned to service at 1421 hours on the 25th. At 0319 hours a turbine trip occurred due to a faulty turbine overspeed sensing probe. The Unit was synchronized to the grid at 0955 hours on the 26th.   |
| 14  | 870926 | F                 | 6.6              | A                   | 9  | N/A                     | HA                       | TURBIN                      | At 0156 hours a reactor trip occurred due to a low level signal from the "A" steam generator in conjunction with a high feed flow signal. After the reactor had been taken critical following the September 28th trip a reactor trip with safety injection occurred due to low steam pressure. The Unit was synchronized to the grid at 1005 hours on the 30th. |
| 15  | 870928 | F                 | 24.4             | A                   | 3  | 87-023                  | CC                       | HTEXCH                      |   |
| 16  | 870929 | F                 | 31.8             | A                   | 3  | 87-024                  | HB                       | ZZZZZZ                      |   |

- 1 F Fined  
 S Scheduled
- 2 Reason  
 A Equipment Failure (if explain)  
 B Maintenance or Test  
 C Refueling  
 D Regulatory Restriction  
 E Operation Training & License Examination  
 F Administrative  
 G Operational Error (if explain)  
 H Other (if explain)
- 3 Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continued From Previous Month  
 5-Reduction  
 9-Other
- 4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (FER) File (NTRC, 0161)
- 5 Exhibit I - Same Source

9/77)



NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 1

SEPTEMBER, 1987

|  |  |
|--|--|
| September 1                            | The Unit entered the month at a reduced power level of approximately 30 percent as repair work to the heater drain tank level control valve (LCV-SD-106A) continued. Repair work was completed and power ascension toward 100 percent was initiated at 1745 hours. |
| September 2<br>through<br>September 3  | The Unit was in Operational Mode 1 with reactor power at a nominal 100 percent and the Reactor Coolant System at a normal operating pressure and temperature.  |
| September 4<br>through<br>September 8  | At 2200 hours on the 4th, at the request of Company System Operations, a 50 percent load reduction was commenced to support load demand for the weekend. Began power ascension toward 100 percent at 0310 hours on the 8th.  |
| September 9<br>through<br>September 30 | The Unit was in Operational Mode 1 with reactor power at a nominal 100 percent and the Reactor Coolant System at a normal operating pressure and temperature.  |



NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT II

SEPTEMBER, 1987

|   |   |
|---|---|
| September 1                             | The Unit was synchronized to the grid at 1343 hours. At 1345 hours a turbine trip occurred, caused by turbine anti-motoring. The Unit was resynchronized to the grid at 1404 hours.   |
| September 2<br>through<br>September 3   | The Unit was operating at approximately 30 percent power to support start-up testing.   |
| September 4                             | At 1815 hours, following the completion of 30 percent testing, power level was increased to approximately, 40 percent.  |
| September 5<br>through<br>September 7   | At 0955 hours on the 5th, for the first time, power level reached 50 percent and was held constant for testing.   |
| September 8                             | At 0606 hours on the 8th, a planned power reduction to 30 percent occurred to support testing.  |
| September 9                             | At 0130 hours, a reactor trip occurred on low level in the "A" steam generator. At 0855 hours, the reactor was taken critical and the unit was synchronized to the grid at 1835 hours. At 2203 hours, a planned reactor trip occurred during the "Station Blackout" test.                                 |
| September 10                            | The reactor was taken critical at 2249 hours.   |
| September 11                            | The Unit was synchronized to the grid at 0428 hours and power level was increased to 50 percent. At 1926 hours, a load reduction was initiated to remove the unit from service for the Pressurizer Safety Valve mini-outage. The Unit was taken off-line at 2038 hours, and entered Mode 3 at 2130 hours. |
| September 12<br>through<br>September 13 | The Unit entered Mode 4 at 1320 hours on the 12th, and Mode 5 at 0209 hours on the 13th.  |
| September 14<br>through<br>September 22 | The Unit was in cold shutdown for the Pressurizer Safety Valve mini-outage.   |
| September 23                            | The Unit entered Mode 4 at 0220 hours and Mode 3 at 1140 hours.   |

MONTHLY OPERATING EXPERIENCE (Continued)

|   |  |
|---|--|
| September 24<br>through<br>September 25 | The reactor was taken critical at 2010 hours on the 24th and was synchronized to the grid at 1421 hours on the 25th.   |
| September 26<br>through<br>September 27 | At 0319 hours on the 26th, a turbine trip occurred due to a faulty turbine overspeed sensing probe. The Unit was resynchronized to the grid at 0955 hours on the 26th followed by power ascension toward a 75 percent power level. |
| September 28                            | At 0156 hours, a reactor trip occurred due to a low level signal from the "A" steam generator in conjunction with a high feed flow signal. The reactor was taken critical at 1047 hours.   |
| September 29                            | At 0219 hours, a reactor trip with safety injection occurred due to low steam pressure.  |
| September 30                            | The reactor was taken critical at 0244 hours and the Unit was synchronized to the grid at 1005 hours.  |





**Duquesne Light**

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

Telephone (412) 393-6000

October 13, 1987

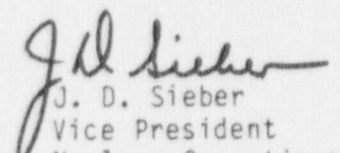
Beaver Valley Power Station  
Unit 1 - Docket No. 50-334, License No. DPR-66  
Unit 2 - Docket No. 50-412, License No. NPF-73  
Monthly Operating Report

U. S. Nuclear Regulatory Commission  
Director, Office of Management  
Information & Program Control  
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 September, 1987.


Very truly yours,

  
J. D. Sieber  
Vice President  
Nuclear Operations

lmd

Enclosures

cc: NRC Regional Office  
King of Prussia, PA

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