



L-02-026
March 7, 2002

**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 NRC Generic Letter 97-02, "Revised Contents of the Monthly Operating Report," and Unit 1 and 2 Technical Specification 6.9.4, the "Monthly Operating Report" is submitted for Unit 1 and Unit 2 for the month of March 2002.

Respectfully,

**Lew W. Myers
Senior Vice-President – Nuclear**

DTJ/hkh

Enclosures

**C: NRC Regional Office
King of Prussia, PA**

IE24

UNIT SHUTDOWNS

DOCKET NO. 50-334
 UNIT NAME BVPS Unit #1
 DATE March 4, 2002
 COMPLETED BY David T. Jones
 TELEPHONE (724) 682-4962

REPORTING PERIOD: February 2002

| No. | Date (Y/M/D) | Type | Duration (Hours) | Reason (1) | Method of Shutting Down (2) | Cause / Corrective Actions |
|-----|-----------------|---------------------------|---------------------|---------------|-----------------------------------|----------------------------|
| | | F: Forced S: Scheduled | | | | Comments |
| | | | | | | NONE. |

(1) Reason

- A - Equipment Failure (Explain)
- B - Maintenance or Test
- C - Refueling
- D - Regulatory Restriction
- E - Operator Training / License Examination
- F - Administrative
- G - Operational Error (Explain)
- H - Other (Explain)

(2) Method

- 1 - Manual
- 2 - Manual Trip / Scram
- 3 - Automatic Trip / Scram
- 4 - Continuation
- 5 - Other (Explain)

SUMMARY:

The Unit began the report period operating at approximately 70% output in order to complete repairs to the "B" Heater Drain Tank Normal Level Control Valve. Following repair of the valve and satisfactorily post-maintenance testing, the Unit commenced a return to full power at 0010 hours on 2/1/02. A nominal value of 100% output was achieved at 0500 hours on 2/1/02.

The Unit continued to operate at a nominal value of 100% output until 1742 hours on 2/20/02 when a load reduction to approximately 91% output was made. The load reduction was being done in order to remove the "A" Main Feedwater Pump from service due to high motor outboard bearing temperatures exceeding operating limits. In parallel with the load reduction, additional ventilation was being put in place to aid in cooling the motor outboard bearing. The load reduction was halted at 1747 hours on 2/20/02 when motor outboard bearing temperatures decreased below operating limits. Once motor outboard bearing temperatures had stabilized at acceptable levels, the Unit commenced a return to full power at 0020 hours on 2/21/02. A nominal value to 100% output was achieved at 0209 hours on 2/21/02. The Unit continued to operate at a nominal value of 100% output for the remainder of the report period.

OPERATING DATA REPORT

DOCKET NO.: 50-334
UNIT NAME: BVPS UNIT #1
REPORT DATE: 03/04/02
COMPLETED BY: DAVID T. JONES
TELEPHONE: (724) 682-4962

1a. REPORTING PERIOD: FEBRUARY 2002

1. DESIGN ELECTRICAL RATING (Net MWe): 835
2. MAX. DEPENDABLE CAPACITY (Net MWe): 821

* * * * *
* Notes: Rated thermal power at *
* BVPS-1 was uprated from 2652 MWt *
* to 2689 MWt on 10/20/01. Net *
* MDC was also uprated from *
* 810 MWe to 821 MWe. *
* * * * *

| | THIS MONTH | YEAR TO DATE | CUMULATIVE |
|--------------------------------------|------------|--------------|-------------|
| 3a. HOURS IN REPORTING PERIOD: | 672.0 | 1416.0 | 226440.0 |
| 3. NO. OF HRS. REACTOR WAS CRITICAL: | 672.0 | 1416.0 | 153497.5 |
| 4. SERVICE HOURS GENERATOR ON LINE: | 672.0 | 1416.0 | 151037.9 |
| 5. UNIT RESERVE SHUTDOWN HOURS: | 0.0 | 0.0 | 0.0 |
| 6. NET ELECTRICAL ENERGY GEN. (MWH): | 560300.0 | 1179800.0 | 112845943.0 |
| 7. GROSS ELECT. ENERGY GEN. (MWH): | 592990.0 | 1248430.0 | 120515216.0 |
| 8. GROSS THERMAL ENERGY GEN. (MWH): | 1801795.0 | 3792006.0 | 371426811.5 |
| 9. UNIT AVAILABILITY FACTOR (%): | 100.0 | 100.0 | 68.1 |
| 10. UNIT CAPACITY FACTOR (MDC) (%): | 101.6 | 101.5 | 63.4 |
| 11. UNIT FORCED OUTAGE RATE (%): | 0.0 | 0.0 | 16.3 |

UNIT SHUTDOWNS

DOCKET NO. 50-412
 UNIT NAME BVPS Unit #2
 DATE March 4, 2002
 COMPLETED BY David T. Jones
 TELEPHONE (724) 682-4962

REPORTING PERIOD: February 2002

| No. | Date (Y/M/D) | Type | Duration (Hours) | Reason (1) | Method of Shutting Down (2) | Cause / Corrective Actions |
|-----|-----------------|---------------------------|---------------------|---------------|-----------------------------------|---|
| | | F: Forced S: Scheduled | | | | Comments |
| 1 | 020204 | S | 570.8 | C | 1 | The Unit was shutdown for its scheduled ninth refueling outage. |
| 2 | 020228 | S | 2.5 | B | 5 | The Unit was taken off-line to perform scheduled Turbine Overspeed Trip Testing following the refueling outage (Reactor remained critical). |

(1) Reason

- A - Equipment Failure (Explain)
- B - Maintenance or Test
- C - Refueling
- D - Regulatory Restriction
- E - Operator Training / License Examination
- F - Administrative
- G - Operational Error (Explain)
- H - Other (Explain)

(2) Method

- 1 - Manual
- 2 - Manual Trip / Scram
- 3 - Automatic Trip / Scram
- 4 - Continuation
- 5 - Other (Explain)

SUMMARY:

The Unit began the report period operating at a nominal value of 100% output until 2201 hours on 2/2/02 when a load reduction to less than 50% output was commenced to support scheduled Main Steam Safety Valve testing prior to the beginning of the Unit's ninth refueling outage. An output of approximately 47% was achieved at 0714 hours on 2/3/02. Upon satisfactory completion of Main Steam Safety Valve testing, the Unit commenced a shutdown for its ninth refueling outage at 1800 hours on 2/3/02. The Unit was taken off-line at 0001 hours on 2/4/02 to begin its scheduled ninth refueling outage. Mode 2 was entered at 0101 hours, Mode 3 was entered at 0108 hours, Mode 4 was entered at 0447 hours, and Mode 5 (cold shutdown) was entered at 0642 hours on 2/4/02. The Unit remained in Mode 5 until 1402 hours on 2/7/02 when Mode 6 (refueling) was entered. Following core re-load and installation of the Reactor vessel head, Mode 5 was re-entered at 1743 hours on 2/18/02. The Unit began to heat up and entered Mode 4 at 0515 hours on 2/25/02. Mode 3 was entered at 2254 hours on 2/25/02. Reactor startup was commenced with Mode 2 being entered at 0735 hours, and the Reactor being taken critical at 0832 hours on 2/27/02. Mode 1 was entered at 1631 hours on 2/27/02. The Unit was synchronized to the electrical grid at 1851 hours on 2/27/02, officially ending the ninth refueling outage. Output was then escalated to approximately 25% for fuel preconditioning and to obtain core power distribution data for start-up testing. Upon completion of a flux map, the Unit commenced to reduce output at 1110 hours on 2/28/02 in preparation for going off-line to perform a scheduled Turbine Overspeed Trip Test. The Unit was taken off-line at 1205 hours on 2/28/02. Following satisfactory Turbine Overspeed Trip Testing, the Unit was synchronized to the electrical grid at 1433 hours on 2/28/02. Output was then raised at 3% per hour towards 75% output for fuel preconditioning. As of the end of this report period, output was at approximately 39%.

OPERATING DATA REPORT

DOCKET NO.: 50-412
UNIT NAME: BVPS UNIT #2
REPORT DATE: 03/04/02
COMPLETED BY: DAVID T. JONES
TELEPHONE: (724) 682-4962

1a. REPORTING PERIOD: FEBRUARY 2002

1. DESIGN ELECTRICAL RATING (Net MWe): 836
2. MAX. DEPENDABLE CAPACITY (Net MWe): 831

* * * * *
* Notes: Rated thermal power at *
* BVPS-2 was uprated from 2652 Mwt *
* to 2689 Mwt on 10/30/01. Net *
* MDC was also uprated from *
* 820 MWe to 831 MWe. *
* * * * *

| | THIS MONTH | YEAR TO DATE | CUMULATIVE |
|--------------------------------------|------------|--------------|-------------|
| 3a. HOURS IN REPORTING PERIOD: | 672.0 | 1416.0 | 125223.0 |
| 3. NO. OF HRS. REACTOR WAS CRITICAL: | 112.6 | 856.6 | 102211.1 |
| 4. SERVICE HOURS GENERATOR ON LINE: | 98.7 | 842.7 | 101535.3 |
| 5. UNIT RESERVE SHUTDOWN HOURS: | 0.0 | 0.0 | 0.0 |
| 6. NET ELECTRICAL ENERGY GEN. (MWH): | 47940.0 | 679744.0 | 79257836.0 |
| 7. GROSS ELECT. ENERGY GEN. (MWH): | 56339.0 | 720408.0 | 83795151.0 |
| 8. GROSS THERMAL ENERGY GEN. (MWH): | 177389.0 | 2174559.0 | 255582140.0 |
| 9. UNIT AVAILABILITY FACTOR (%): | 14.7 | 59.5 | 81.1 |
| 10. UNIT CAPACITY FACTOR (MDC) (%): | 8.6 | 57.8 | 76.8 |
| 11. UNIT FORCED OUTAGE RATE (%): | 0.0 | 0.0 | 10.4 |