



*FirstEnergy Nuclear Operating Company*

**L-02-002**  
**January 8, 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**

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**U. S. Nuclear Regulatory Commission**  
**Document Control Desk**  
**Washington, D.C. 20555**

**Gentlemen:**

**In accordance with NCR 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 December 2001.**

**Respectfully,**

A handwritten signature in black ink, appearing to read "Lew W. Myers".

**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 January 3, 2002  
 COMPLETED BY David T. Jones  
 TELEPHONE (724) 682-4962

REPORTING PERIOD: December 2001

No.	Date (D/M/Y)	Type	Duration (Hours)	Reason (1)	Method of Shutting Down (2)	Cause / Corrective Actions
		F: Forced S: Scheduled				Comments
6	071201	F	59.4	H	2	While at 100% output, the Reactor was manually tripped due to loss of station air pressure. The loss of station air pressure occurred when the 1A Station Air Compressor tripped while the 1B Station Air Compressor was out of service for preventive maintenance (PM) work. The PM required verification that all wiring terminations associated within the control panel for the compressor were tight. While checking the connections, a short occurred when a screwdriver without insulation was used to tighten a terminal screw. The short grounded the control circuit for an interconnection with the 1A Station Air Compressor, causing it to blow a control power fuse. This interconnect was not clearly evident in the PM work order. The blown control power fuse caused the 1A Station Air Compressor to trip. Trip of compressor 1A combined with the tag-out and work being performed on compressor 1B, caused loss of station air pressure, forcing a manual trip of the Reactor.

## (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. On 12/7/01 at 1401 hours, the Reactor was manually tripped due to loss of station air pressure. The Unit was stabilized in Mode 3 while the cause and evaluation of the trip continued (see above for details). Upon determination that startup could proceed, the Unit commenced Reactor startup, entering Mode 2 at 1656 hours and going critical at 2023 hours on 12/9/01. The Unit was synchronized to the electrical grid at 0126 hours on 12/10/01, achieving a nominal value of 100% output at 1730 hours on 12/10/01. 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: 01/03/02  
COMPLETED BY: DAVID T. JONES  
TELEPHONE: (724) 682-4962

1a. REPORTING PERIOD: DECEMBER 2001  
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:	744.0	8760.0	225024.0
3. NO. OF HRS. REACTOR WAS CRITICAL:	689.6	7461.6	152081.5
4. SERVICE HOURS GENERATOR ON LINE:	684.6	7409.7	149621.9
5. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
6. NET ELECTRICAL ENERGY GEN. (MWH):	564958.0	5991023.0	111666143.0
7. GROSS ELECT. ENERGY GEN. (MWH):	599918.0	6356373.0	119266786.0
8. GROSS THERMAL ENERGY GEN. (MWH):	1823296.0	19327289.0	367634805.5
9. UNIT AVAILABILITY FACTOR (%):	92.0	84.6	67.9
10. UNIT CAPACITY FACTOR (MDC) (%):	92.5	84.2	63.2
11. UNIT FORCED OUTAGE RATE (%):	8.0	2.8	16.4

# UNIT SHUTDOWNS

DOCKET NO. 50-412  
 UNIT NAME BVPS Unit #2  
 DATE January 3, 2002  
 COMPLETED BY David T. Jones  
 TELEPHONE (724) 682-4962

REPORTING PERIOD: December 2001

No.	Date (D/M/Y)	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 operated at a nominal value of 100% output for the entire report period.

# OPERATING DATA REPORT

DOCKET NO.: 50-412  
UNIT NAME: BVPS UNIT #2  
REPORT DATE: 01/03/02  
COMPLETED BY: DAVID T. JONES  
TELEPHONE: (724) 682-4962

1a. REPORTING PERIOD: DECEMBER 2001  
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:	744.0	8760.0	123807.0
3. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	8712.1	101354.5
4. SERVICE HOURS GENERATOR ON LINE:	744.0	8702.6	100692.6
5. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
6. NET ELECTRICAL ENERGY GEN. (MWH):	631976.0	7191653.0	78578092.0
7. GROSS ELECT. ENERGY GEN. (MWH):	664863.0	7567068.0	83074743.0
8. GROSS THERMAL ENERGY GEN. (MWH):	1997250.0	22689519.0	253407581.0
9. UNIT AVAILABILITY FACTOR (%):	100.0	99.3	81.3
10. UNIT CAPACITY FACTOR (MDC) (%):	102.2	99.9	77.0
11. UNIT FORCED OUTAGE RATE (%):	0.0	0.7	10.4