

# FENOC

FirstEnergy Nuclear Operating Company

Beaver Valley Power Station  
P. O. Box 4  
Shippingport, PA 15077

L-03-043

March 10, 2003

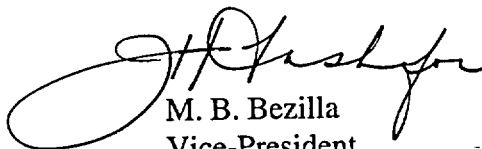
Beaver Valley Power Station  
Unit 1 - Docket No. 50-334, License No. DPR-66  
Unit 2 - Docket No. 50-412, License No. NPF-73  
Monthly Operating Report

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 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 February, 2003.

Respectfully,



M. B. Bezilla  
Vice-President

DTJ/cmg

Enclosures

cc: NRC Regional Office  
King of Prussia, PA

IE24

## UNIT SHUTDOWNS

DOCKET NO. 50-334  
 UNIT NAME BVPS Unit #1  
 DATE March 3, 2003  
 COMPLETED BY David T. Jones  
 TELEPHONE (724) 682-4962

REPORTING PERIOD: February 2003

No.	Date (Y/M/D)	Type F: Forced S: Scheduled	Duration (Hours)	Reason (1)	Method of Shutting Down (2)	Cause / Corrective Actions
						Comments
1	03/02/24	F	58.8	H	3	<p>The Unit experienced an automatic reactor trip and safety injection due to low main steam pressure when the "C" Main Steam Isolation Valve failed closed. Carpenters erecting scaffolding for the upcoming refueling outage in the area of this valve punctured a rupture disk on one of two actuator air operating cylinders that hold the valve in the open position. Puncture of the rupture disk vented the instrument air pressure resulting in closure of the valve. The rupture disks were replaced in each of the two actuator air cylinders for this valve.</p>

**(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 1548 hours on 2/24/03, when the Unit experienced an automatic reactor trip and safety injection due to low main steam pressure when the "C" Main Steam Isolation Valve failed closed. Per the Emergency Plan, an Unusual Event was also declared at 1600 hours on 2/24/03. With the plant stable in Mode 3, the Unusual Event was terminated at 1735 hours on 2/24/03. Following evaluation of the trip and repair of the valve, Mode 2 was entered at 2001 hours on 2/26/03. The reactor was taken critical at 2039 hours and Mode 1 was entered at 2129 hours on 2/26/03. The Unit was synchronized to the electrical grid at 0238 hours on 2/27/03 and power escalation was begun. Due to elevated and increasing motor bearing temperatures on the running "A" Main Feedwater Pump, an attempt was made to start the "B" Main Feedwater Pump when the 4KV feeder breaker to the "D" 4KV Bus tripped on overcurrent at 1301 hours on 2/27/03. Output was immediately reduced from approximately 57% to approximately 45% as the "A" Main Feedwater Pump remained in service. During the course of the next several hours, output was allowed to reduce from approximately 45% to as low as 36% due to core end of life reactivity management before stabilizing out at approximately 39% output at 2000 hours on 2/27/03. The Unit continued to operate at approximately 39% output while motor bearing temperatures on the "A" Main Feedwater Pump were reduced and stabilized. From 2100 hours on 2/28/03 to 0250 hours on 3/1/03, power was escalated to approximately 58% (one Main Feedwater Pump operation) while evaluation of the bus trip continued.

OPERATING DATA REPORT

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

1a. REPORTING PERIOD: FEBRUARY 2003  
 1. DESIGN ELECTRICAL RATING (Net MWe): 835  
 2. MAX. DEPENDABLE CAPACITY (Net MWe): .821

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

	THIS MONTH	YEAR TO DATE	CUMULATIVE
3a. HOURS IN REPORTING PERIOD:	672.0	1416.0	235200.0
3. NO. OF HRS. REACTOR WAS CRITICAL:	619.2	1363.2	161954.7
4. SERVICE HOURS GENERATOR ON LINE:	613.2	1357.2	159469.2
5. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
6. NET ELECTRICAL ENERGY GEN. (MWH):	488471.0	1113361.0	119769368.0
7. GROSS ELECT. ENERGY GEN. (MWH):	519301.0	1180381.0	127849971.0
8. GROSS THERMAL ENERGY GEN. (MWH):	1573244.0	3571420.0	393842729.5
9. UNIT AVAILABILITY FACTOR (%):	91.3	95.8	69.2
10. UNIT CAPACITY FACTOR (MDC) (%):	88.5	95.8	64.7
11. UNIT FORCED OUTAGE RATE (%):	8.8	4.2	15.6

## UNIT SHUTDOWNS

DOCKET NO. 50-412  
 UNIT NAME BVPS Unit #2  
 DATE March 3, 2003  
 COMPLETED BY David T. Jones  
 TELEPHONE (724) 682-4962

REPORTING PERIOD: February 2003

No.	Date (Y/M/D)	Type F: Forced S: Scheduled	Duration (Hours)	Reason (1)	Method of Shutting Down (2)	Cause / Corrective Actions  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: 03/03/03  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (724) 682-4962

1a. REPORTING PERIOD: FEBRUARY 2003  
 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	133983.0
3. NO. OF HRS. REACTOR WAS CRITICAL:	672.0	1416.0	110971.1
4. SERVICE HOURS GENERATOR ON LINE:	672.0	1416.0	110242.5
5. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
6. NET ELECTRICAL ENERGY GEN. (MWH):	567210.0	1198299.0	86380702.0
7. GROSS ELECT. ENERGY GEN. (MWH):	596151.0	1258389.0	91290434.0
8. GROSS THERMAL ENERGY GEN. (MWH):	1804094.0	3801982.0	278401593.0
9. UNIT AVAILABILITY FACTOR (%):	100.0	100.0	82.3
10. UNIT CAPACITY FACTOR (MDC) (%):	101.6	101.8	77.6
11. UNIT FORCED OUTAGE RATE (%):	0.0	0.0	9.6