

NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE  
UNIT I  
FEBRUARY, 1988

February 1 through February 4	The Unit remained shutdown for refueling.
February 5	At 1255 hours, the Unit entered Mode 5.
February 6 through February 22	The Unit remained in Mode 5.
February 23	At 0200 hours, the Unit entered Mode 4.
February 24	At 0736 hours, the Unit entered Mode 3.
February 25 through February 27	The Unit remained in Mode 3.
February 28	At 1332 hours, the Unit entered Mode 2.
February 29	The Unit remained in Mode 2.

IE2411

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334  
 UNIT 3VPS Unit #1  
 DATE March 10, 1988  
 COMPLETED BY M.A. Winger  
 TELEPHONE (412) 543-1825

MONTH February, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	N/A
31	N/A

## INSTRUCTIONS

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

(9/77)

# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February, 1988

DOCKET NO. 50-334  
 UNIT NAME BVPS Unit #1  
 DATE March 10, 1988  
 COMPLETED BY M.A. Winger  
 TELEPHONE (412) 643-1825

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
2	880201	S	696	C	4	N/A	ZZ	ZZZZZZ	The Unit remained shutdown the entire month of the Unit's Sixth Refueling Outage.

1  
 F Forced  
 S Scheduled

2  
 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)

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) File (NUREG  
 0161)

5  
 Exhibit I - Same Source

# OPERATING DATA REPORT

DOCKET NO.: 50-334  
 REPORT DATE: 03/10/88  
 COMPLETED BY: M.A. WINGER  
 TELEPHONE: (412) 643-1825

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
  2. REPORTING PERIOD: FEBRUARY 1988
  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:
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9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (Net MWe): None
  10. REASONS FOR RESTRICTIONS, IF ANY: N/A
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	THIS MONTH	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	696.0	1440.0	103728.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	0.0	0.0	59184.2
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	0.0	0.0	57654.2
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	0.0	0.0	136917319.5
17. GROSS ELECT. ENERGY GEN. (MWH):	0.0	0.0	43865720.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	-7720.0	-10920.0	40914773.0
19. UNIT SERVICE FACTOR: (PERCENT)	0.0	0.0	57.9
20. UNIT AVAILABILITY FACTOR: (PERCENT)	0.0	0.0	57.9
21. UNIT CAPACITY FACTOR (MDC): PCT	0.0	0.0	51.9
22. UNIT CAPACITY FACTOR (DER): PCT	0.0	0.0	50.4
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	0.0	19.7

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: MAR 2, 1988

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>

NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT II

FEBRUARY, 1988

February 1 through February 9	The Unit remained shutdown for maintenance.
February 10	The reactor was taken critical at 1123 hours. At 1300 hours, the reactor was shutdown to repair Pressurizer PORV Isolation Valve (RCS-MOV537).
February 11	The Unit remained shutdown.
February 12	The reactor was taken critical at 1903 hours.
February 13	The Unit was synchronized at 0614 hours and power was escalated to a nominal value of 45% to permit steam generator level trip setpoint adjustments. At 1300 hours, a power escalation toward 95% was initiated.
February 14 through February 16	The Unit operated at a nominal value of 100% output.
February 17	At 2104 hours, the Unit's output was reduced to 75% to permit leak testing of the 'D' waterbox of the Unit's main condenser.
February 18	At 0910 hours, the Unit's output was increased to approximately 87%.
February 19	At 0310 hours, leak testing of the Unit's main condenser was complete and a power escalation toward 100% output was initiated. At 0950 hours, the Unit's output was reduced to 85% to permit leak testing of the 'D' waterbox of the Unit's main condenser. At 1205 hours, power was reduced to 60% to remove the 'B' Main Feed Pump from service for maintenance.
February 20 through February 21	The Unit operated at a nominal value of 60% output.
February 22	At 0520 hours, the Startup Feed Pump was placed in service and power was escalated to a nominal value of 80%. At 1145 hours, the 'B' Main Feed Pump was returned to service and power was increased to a nominal value of 100% output.
February 23 through February 29	The Unit operated at a nominal value of 100% output.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-412  
 UNIT BVPS Unit 2  
 DATE March 10, 1988  
 COMPLETED BY M.A. Winger  
 TELEPHONE (412) 643-1825

MONTH February, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>290</u>
14	<u>802</u>
15	<u>818</u>
16	<u>822</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>802</u>
18	<u>668</u>
19	<u>623</u>
20	<u>447</u>
21	<u>453</u>
22	<u>655</u>
23	<u>823</u>
24	<u>818</u>
25	<u>818</u>
26	<u>814</u>
27	<u>814</u>
28	<u>818</u>
29	<u>814</u>
30	<u>N/A</u>
31	<u>N/A</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

REPORT MONTH February, 1988

DOCKET NO. 50-412

UNIT NAME BVPS Unit 2

DATE March 10, 1988

COMPLETED BY M.A. Winger

TELEPHONE (412) 643-1825

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
3	880201	S	229	B	4	N/A	CA	VESSEL	Perform maintenance on a leaking pressurizer manway.
4	880210	F	65.2	A	1	N/A	CA	VALVEX	The reactor was shutdown to repair pressurizer PORV Isolation Valve [RCS-MOV537].
5	880217	F	0	B	5	N/A	HC	ZZZZZZ	Reduced output to 75% to permit leak testing the 'D' waterbox of the Unit's main condenser.
6	880219	F	0	B	5	N/A	HC	ZZZZZZ	Reduced output to 85% to permit leak testing of the 'D' waterbox of the Unit's main condenser.
7	880219	F	0	B	5	N/A	CH	PUMPXX	Power was reduced from 85% to 60% to permit the 'B' main feed pump's removal from service for maintenance.

1

F Forced  
S Scheduled

2

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)

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) File (NUR) G.

01611

5

Exhibit I - Same Source

# OPERATING DATA REPORT

DOCKET NO.: 50-412  
 REPORT DATE: 03/10/88  
 COMPLETED BY: M.A.WINGER  
 TELEPHONE: (412) 643-1825

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: FEBRUARY 1988
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 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:	696.0	1440.0	2511.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	414.6	1040.5	2006.0
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	401.8	1027.7	1977.5
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	948305.0	2595823.0	4981460.4
17. GROSS ELECT. ENERGY GEN. (MWH):	307600.0	843400.0	1625600.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	285646.0	792196.0	1530300.0
19. UNIT SERVICE FACTOR: (PERCENT)	57.7	71.4	73.8
20. UNIT AVAILABILITY FACTOR: (PERCENT)	57.7	71.4	78.8
21. UNIT CAPACITY FACTOR (MDC): PCT	49.3	66.0	73.2
22. UNIT CAPACITY FACTOR (DER): PCT	49.1	65.8	72.9
23. UNIT FORCED OUTAGE RATE: (PERCENT)	14.0	6.0	9.0

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