

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE
UNIT I
DECEMBER, 1987

December 1 The Unit was in operational mode 1 with a power
through coastdown in progress prior to the beginning of the
December 11 Sixth Refueling Outage. At 2133 hours on the 11th, the
 Unit was shutdown for refueling.

December 12 The Unit remained shutdown for refueling.
through
December 31

OPERATING DATA REPORT

DOCKET NO.: 50-334
 REPORT DATE: 01/08/88
 COMPLETED BY: M. A. Winger
 TELEPHONE: (12) 643-1825

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: DECEMBER 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:	744.0	8760.0	102288.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	261.7	7339.4	59154.2
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	261.6	7322.9	57654.2
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	469765.0	18392913.0	136917319.5
17. GROSS ELECT. ENERGY GEN. (MWH):	153530.0	5992490.0	43865720.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	139160.0	5620890.0	40925693.0
19. UNIT SERVICE FACTOR: (PERCENT)	35.2	83.6	58.8
20. UNIT AVAILABILITY FACTOR: (PERCENT)	35.2	83.6	58.8
21. UNIT CAPACITY FACTOR (MDC): PCT	23.1	79.2	52.7
22. UNIT CAPACITY FACTOR (DER): PCT	22.4	76.8	51.2
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	3.4	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: FEB. 15, 1987

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

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

FORECAST	ACHIEVED
N/A	N/A
N/A	N/A
N/A	N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 80-324

UNIT 3475 Unit: 1

DATE 1/11/88

COMPLETED BY M.A. Winger

TELEPHONE (412) 643-1825

MONTH December

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>679</u>
2	<u>671</u>
3	<u>675</u>
4	<u>667</u>
5	<u>508</u>
6	<u>471</u>
7	<u>471</u>
8	<u>450</u>
9	<u>463</u>
10	<u>458</u>
11	<u>408</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 (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>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</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 December

DOCKET NO. 50-334
UNIT NAME BVPS Unit #1
DATE 1/11/88
COMPLETED BY M.A. Winger
TELEPHONE (412)-643-1825

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
20	871201	S	261.6	H	5	N/A	RC	FUELXX	The Unit operated at a reduced output due to a power coastdown in preparation for the Unit's Sixth Refueling Outage.
21	871211	S	482.4	C	1	N/A	RC	FUELXX	The Unit was shutdown at 2133 hours on December 11th to begin 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 (EER) File (NUREG
0161)

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Exhibit I - Same Source

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT II

DECEMBER, 1987

December 1 through December 13	The Unit operated at a nominal value of 100% output.
December 14	At 0350 hours, power was reduced from 100% to 45% due to loss of normal condenser vacuum. At 0520 hours, power was escalated to a nominal value of 100%.
December 15	At 2201 hours, a power reduction to 50% was initiated to remove the 'A' Main Feed Pump from service for maintenance. The power reduction was maintained at 70% to troubleshoot the Startup Feed Pump.
December 16 through December 18	At 0800 hours on the 16th, the Startup Feed Pump was placed in service and power was escalated to 80%.
December 19 through December 20	At 0038 hours on the 19th, power was reduced from 80% to 60% to support placing the moisture separator/reheaters in service. At 0320 hours on the 19th, the moisture separator/reheaters were placed in service and power was escalated to 80%.
December 21	At 0055 hours, a load reduction to 46% was initiated to remove the Startup Feed Pump from service. At 0603 hours, a power ascension to 80% was initiated when the Startup Feed Pump was returned to service.
December 22	At 0608 hours, the 'A' Main Feed Pump was returned to service and power was escalated to a nominal value of 100%.
December 23 through December 31	The Unit operated at a nominal value of 100% output.

OPERATING DATA REPORT

DOCKET NO.: 50-412
 REPORT DATE: 01/08/88
 COMPLETED BY: M. A. Winger
 TELEPHONE: (412) 643-1825

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: DECEMBER 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 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:	744.0	1071.0	1071.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	965.5	965.5
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	744.0	949.8	949.8
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1868106.4	2385637.4	2385637.4
17. GROSS ELECT. ENERGY GEN. (MWH):	613300.0	782200.0	782200.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	581027.0	738104.0	738104.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	88.7	88.7
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	88.7	88.7
21. UNIT CAPACITY FACTOR (MDC): PCT	93.8	82.7	82.7
22. UNIT CAPACITY FACTOR (DER): PCT	93.4	82.4	82.4
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	11.3	11.3

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	11/87	11/17/87

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO 50-412
 UNIT BVPS Unit 2
 DATE 1/11/88
 COMPLETED BY M.A. Winger
 TELEPHONE (412) 643-1825

MONTH December

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>822</u>
2	<u>826</u>
3	<u>823</u>
4	<u>818</u>
5	<u>826</u>
6	<u>818</u>
7	<u>826</u>
8	<u>818</u>
9	<u>814</u>
10	<u>822</u>
11	<u>826</u>
12	<u>823</u>
13	<u>826</u>
14	<u>765</u>
15	<u>794</u>
16	<u>627</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>656</u>
18	<u>652</u>
19	<u>648</u>
20	<u>665</u>
21	<u>594</u>
22	<u>765</u>
23	<u>814</u>
24	<u>822</u>
25	<u>818</u>
26	<u>818</u>
27	<u>818</u>
28	<u>814</u>
29	<u>818</u>
30	<u>818</u>
31	<u>814</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.

(0/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH DecemberDOCKET NO. 50-412UNIT NAME BVPS Unit 2DATE 1/11/88COMPLETED BY M.A. WingerTELEPHONE (412)-643-1825

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
31	871214	F	4.2	A	5	N/A	HC	HTEXCH	At 0350 hours, power was reduced to 45% to prevent the Unit from tripping on low condenser vacuum. Condenser vacuum was returned to normal at 0520 hours and a power ascension toward 100% was initiated.
32	871215	S	152.1	B	5	N/A	HH	PUMPXX	Power was reduced from 100% to approximately 80% to remove the 'A' Main Feed Pump from service. The Feed Pump was repaired and returned to service at 0608 hours on the 22nd. Power was then escalated to a nominal value of 100%.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December

DOCKET NO. 50-412

UNIT NAME BVPS Unit 2

DATE 1/11/88

COMPLETED BY M.A. Winger

TELEPHONE (412)-643-1825

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
33	871219	S	2.7	B	5	N/A	HJ	HTEXCH	At 0038 hours, a power reduction from 80% to 60% was initiated to support placing the Unit's moisture separators/reheaters in service. The moisture separator/reheaters were placed in service at 0320 hours and power was escalated to 80%.
34	871221	F	6.75	A	5	N/A	HH	PUMPXX	At 0055 hours, a power descension toward 45% was initiated to remove the Startup Feed Pump from service when the 'A' main Feed Pump seal package failed. The seal was repaired at 0603 hours and power was escalated to 80%.

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

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Entry Sheets for Licensee
Event Report (LER) File (NUREG
0161)

5

Exhibit I - Same Source



Duquesne Light

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

Telephone (412) 393-6000

January 11, 1988

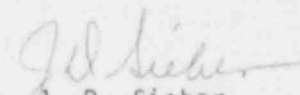
Beaver Valley Power Station
Unit 1 - Docket No. 50-334, License No. DPR-66
Unit 2 - Docket No. 50-412, License No. NPF-73
Monthly Operating Report

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 December, 1987.

Very truly yours,


J. D. Sieber
Vice President
Nuclear Operations

lmd

Enclosures

cc: NRC Regional Office
King of Prussia, PA

IE24
1/1

ADD: R. SCOTT 7602 MUB