



Duquesne Light

Nuclear Group
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January 7, 1991

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 Appendix A, Technical Specifications, the Monthly Operating Report is submitted for Unit 1 and Unit 2 for the month of December, 1990.

Very truly yours,

J. D. Sieber
Vice President
Nuclear Group

MAW/rmg

Enclosures

cc: NRC Regional Office
King of Prussia, PA

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OPERATING DATA REPORT

DOCKET NO.: 50-334
 REPORT DATE: 01/07/91
 COMPLETED BY: M.A.WINCER
 TELEPHONE: (412) 393-7621

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: DECEMBER 1990
3. LICENSED THERMAL POWER (Mwt): 2652
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	128592.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	689.8	8155.9	80294.4
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	671.0	8077.5	78545.0
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1437202.0	20208392.0	186288447.5
17. GROSS ELECT. ENERGY GEN. (MWH):	462230.0	6563040.0	59822729.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	430450.0	6167050.0	55864200.0
19. UNIT SERVICE FACTOR: (PERCENT)	90.2	92.2	63.3
20. UNIT AVAILABILITY FACTOR: (PERCENT)	90.2	92.2	63.3
21. UNIT CAPACITY FACTOR (MDC): PCT	71.4	86.9	56.6
22. UNIT CAPACITY FACTOR (DER): PCT	69.3	84.3	54.9
23. UNIT FORCED OUTAGE RATE: (PERCENT)	9.8	4.2	16.3

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):
THE UNIT IS SCHEDULED TO SHUTDOWN FOR THE UNIT'S 8TH REFUELING OUTAGE ON
APRIL 12, 1991. THE UNIT IS SCHEDULED TO BE SHUTDOWN FOR 10 WEEKS.

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

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>

NAFATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT I

DECEMBER 1990

December 1 through December 16 The Unit operated at a nominal value of 100% output.

December 17 At 2100 hours the unit's output was reduced to 80% to load follow.

December 18 At 0545 hours the unit's output was escalated to a nominal value of 100%. At 2100 hours the Unit's output was reduced to 80% to load follow.

December 19 At 0550 hours the unit's output was escalated to a nominal value of 100%. At 2200 hours the unit's output was reduced to 80% to load follow.

December 20 At 0542 hours the unit's output was escalated to a nominal value of 100%. At 1900 hours the unit's output was reduced to 80% to load follow.

December 21 At 1000 hours the unit's output was escalated to a nominal value of 100%. At 2100 hours the unit's output was reduced to 30% to permit boric acid treatment to the secondary side of the steam generators.

December 22 through December 25 The unit operated at 30% output to permit boric acid treatment to the secondary side of the unit's steam generators.

December 26 At 1110 hours the unit was removed from service when the 'B' Main Steam Line Isolation Valve inadvertently closed. At 1140 hours the reactor was taken subcritical.

December 27 The unit remained shutdown to repair the 'B' Main Steam Line Isolation Valve.

December 28 At 1752 hours the reactor was taken critical. At 2030 hours the rod position indicator for control rod G-3 malfunctioned.

December 29 At 0720 hours the rod position indicator for control rod G-3 was repaired. At 1212 hours the unit was synchronized and the unit's output was escalated to 30%.

December 30 through December 31 The unit operated at 30% output to permit boric acid treatment to the secondary side of the unit's steam generators.

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 50-334
 Unit Name BVPS Unit #1
 Date January 7, 1991
 Completed By M.A. Winger
 Telephone (412) 393-7621

REPORT MONTH DECEMBER 1990

No.	Date	Type1	Duration (Hours)	Reason2	Method of Shutting Down Reactor3	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective Action to Prevent Recurrence
35	901218	S	0	H	5	N/A	ZZ	ZZZZZZ	Unit's output reduced to 80% to load follow.
36	901219	S	0	H	5	N/A	ZZ	ZZZZZZ	Unit's output reduced to 80% to load follow.
37	901220	S	0	H	5	N/A	ZZ	ZZZZZZ	Unit's output reduced to 80% to load follow.
38	901221	S	0	H	5	N/A	CC	HTEXCH	Unit's output reduced from 100% to 30% to permit boric acid treatment to secondary side of the unit's steam generators.
39	901226	F	73	A	1	1-90-19	CD	VALVEX	The unit was removed from service after the 'B' Main Steam Line Isolation Valve inadvertently closed.

1
 F-Forced
 S-Scheduled

2
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Defueling
 D-Regulatory Restriction
 E-Operator Training & License Exam
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

3
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Cont'd. from Previous Month
 5-Reduction
 9-Other

4
 Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG0161).

5
 Exhibit F-Same Source.

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 50-334
 Unit Name BVPS Unit #1
 Date January 7, 1991
 Completed By H.A. Winger
 Telephone (412) 393-7621

REPORT MONTH DECEMBER 1990

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
40	901229	S	0	H	S	N/A	CC	HTEXCH	The unit operated at 30% output to permit boric acid treatment to the secondary side of the unit's steam generators.

¹
 F-Forced
 S-Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Exam
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Cont'd. from Previous Month
 5-Reduction
 9-Other

⁴
 Exh G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG0161).

⁵
 Exhibit I-Same Source.

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-334
 Unit BVPS Unit 1
 Date January 7, 1991
 Completed by M. A. Winger
 Telephone (412)393-7621

MONTH DECEMBER 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	821	17	800
2	817	18	750
3	817	19	754
4	817	20	742
5	821	21	713
6	821	22	192
7	821	23	183
8	821	24	175
9	821	25	175
10	813	26	62
11	833	27	0
12	800	28	0
13	821	29	48
14	821	30	158
15	808	31	158
16	817		

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.

OPERATING DATA REPORT

DOCKET NO.: 50-412
 REPORT DATE: 01/08/91
 COMPLETED BY: M.A.WINGER
 TELEPHONE: (412) 393-7621

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: DECEMBER 1990
3. LICENSED THERMAL POWER (Mwt): 2652
4. NAMEPLATE RATING (Gross MWe): 923
5. DESIGN ELECTRICAL RATING (Net MWe): 836
6. MAX. DEPENDABLE CAPACITY (Gross MWe): 870
7. MAX. DEPENDABLE CAPACITY (Net MWe): 820

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	27375.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	744.0	6790.5	22347.3
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	744.0	6734.9	22161.8
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1962999.0	14314872.0	53127616.4
17. GROSS ELECT. ENERGY GEN. (MWH):	636800.0	4570700.0	17036800.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	605414.0	4286849.0	16043324.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	76.9	81.0
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	76.9	81.0
21. UNIT CAPACITY FACTOR (MDC):PCT	99.2	59.0	70.4
22. UNIT CAPACITY FACTOR (DER):PCT	97.3	58.5	70.1
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	1.7	5.2

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):

	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

DECEMBER 1990

December 1
through
December 31

The Unit operated at a nominal value of 100% output.

UNIT SHUTDOWNS AND POWER REDUCTIONS

Docket No. 50-412
 Unit Name BVPS Unit #2
 Date January 7, 1991
 Completed By M.A. Winger
 Telephone (412) 393-7621

REPORT MONTH DECEMBER 1990

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
NONE									

¹
 F-Forced
 S-Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Exam
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Cont'd. from Previous Month
 5-Reduction
 9-Other

⁴
 Exhibit G-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG0161).

⁵
 Exhibit I-Same Source.

AVERAGE DAILY UNIT POWER LEVEL

Docket No. 50-412
 Unit BVPS Unit 2
 Date January 7, 1991
 Completed by M.A. Winger
 Telephone (412) 393-7621

MONTH DECEMBER 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	814	17	815
2	813	18	807
3	814	19	819
4	818	20	816
5	814	21	811
6	818	22	807
7	809	23	815
8	814	24	815
9	814	25	819
10	818	26	811
11	817	27	811
12	811	28	807
13	811	29	807
14	823	30	815
15	807	31	815
16	820		

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.