

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - DECEMBER 1982

December 1 through December 8 Station was in operational mode 1 with reactor power at a nominal 100% and the reactor coolant system at normal operating temperature and pressure.

December 9 through December 10 Commenced reducing the load at 0901 hours on the 9th to 27% reactor power in order to repair a broken stem on the 1A Main Feed Regulating Valve [FCV-FW-478]. At 0435 hours on the 10th, the valve, [FCV-FW-478], was returned to service and reactor power was increased back to a nominal 100%.

December 11 through December 12 On the 11th, the station was in operational mode 1 with reactor power at a nominal 100% and the reactor coolant system at normal operating temperature and pressure. A load reduction of 100 MWe was begun upon request by the system operator at 2300 hours on the 11th and completed at 2326 hours. The system operator requested a further reduction of 150 MWe at 2345 hours. This was completed at 0019 hours on the 12th with reactor power at approximately 70% and the main unit generator output at 620 MWe gross. At 0830 hours, a load increase was begun. Reactor power was stabilized at 97% at 0900 hours in order to perform a heat balance. At 1115 hours, the load was increased to 100% reactor power.

December 13 through December 23 Station was in operational mode 1 with reactor power at a nominal 100% and the reactor coolant system at normal operating temperature and pressure.

December 24 through December 31 The following changes took place during this period at the request of the system operator: At 0001 hours on the 24th, a load reduction was begun. Reactor power was stabilized at 95% at 0015 hours in order to perform a surveillance test on the turbine valves. The test was completed at 0100 hours and the load reduction was continued. The reduction was completed at 0145 hours with reactor power at 68%; at 0600 hours on the 27th a load increase was begun and completed at 0710 hours with reactor power at a nominal 100%; at 2345 hours on the 28th a load reduction was begun and was completed at 0020 hours on the 29th with reactor power at 80%; at 0800 hours on the 29th reactor power was returned to a nominal 100%; at 0001 hours on the 31st, a load decrease was begun to reduce reactor power to 65%. This was completed at 0050 hours. The system operator requested that the station remain at this power level until 1/3/83.

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MAJOR SAFETY-RELATED MAINTENANCE - DECEMBER 1982

1. Repaired actuator on auxiliary feed pump supply trip valve [TV-MS-105B].
2. Maintenance work on the 1A Main Feedwater Regulating Valve [FCV-FW-478] was performed twice during the month of December. On the 2nd, Instrument and Control repaired the valve actuator and instrumentation. On the 9th, a broken valve stem was replaced.
3. Electrical maintenance inspected power-operated relief valve [MOV-RC-535] after the valve failed to stroke fully open during an operations surveillance test. No apparent cause could be found for the problem. The valve was subsequently stroked satisfactorily and declared operable.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334

UNIT BVPS Unit #1

DATE 1-6-83

COMPLETED BY J. L. Holtz

TELEPHONE 412-643-1369

MONTH December

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>809</u>
2	<u>805</u>
3	<u>801</u>
4	<u>805</u>
5	<u>817</u>
6	<u>826</u>
7	<u>809</u>
8	<u>817</u>
9	<u>440</u>
10	<u>639</u>
11	<u>817</u>
12	<u>726</u>
13	<u>817</u>
14	<u>813</u>
15	<u>821</u>
16	<u>813</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>817</u>
18	<u>821</u>
19	<u>817</u>
20	<u>813</u>
21	<u>822</u>
22	<u>826</u>
23	<u>814</u>
24	<u>582</u>
25	<u>553</u>
26	<u>570</u>
27	<u>752</u>
28	<u>814</u>
29	<u>760</u>
30	<u>826</u>
31	<u>545</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.

OPERATING DATA REPORT

DOCKET NO. 50-334
 DATE 1-6-83
 COMPLETED BY J. L. Holtz
 TELEPHONE 412-643-1369

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: December, 1982
3. Licensed Thermal Power (MWt): 2660
4. Nameplate Rating (Gross MWe): 923
5. Design Electrical Rating (Net MWe): 852
6. Maximum Dependable Capacity (Gross MWe): 860
7. Maximum Dependable Capacity (Net MWe): 810
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	8,760	58,464
12. Number Of Hours Reactor Was Critical	744	3,758.2	24,817.5
13. Reactor Reserve Shutdown Hours	0	0	4,482.8
14. Hours Generator On Line	744	3,646.1	23,800.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,810,830.7	8,881,240.4	52,510,181
17. Gross Electrical Energy Generated (MWH)	591,300	2,862,200	16,512,640
18. Net Electrical Energy Generated (MWH)	564,277	2,688,163	15,182,739
19. Unit Service Factor	100.0	41.6	42.5
20. Unit Availability Factor	100.0	41.6	42.5
21. Unit Capacity Factor (Using MDC Net)	93.6	37.9	37.7
22. Unit Capacity Factor (Using DER Net)	89.0	36.0	35.8
23. Unit Forced Outage Rate	0	5.4	36.2
24. Shutdowns Scheduled Over Next 6 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>

OPERATING DATA REPORT

DOCKET NO. 50-334
 DATE 1-11-83
 COMPLETED BY J. L. Holtz
 TELEPHONE 412-643-1369

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: November, 1982
3. Licensed Thermal Power (MWt): 2660
4. Nameplate Rating (Gross MWe): 923
5. Design Electrical Rating (Net MWe): 852
6. Maximum Dependable Capacity (Gross MWe): 860
7. Maximum Dependable Capacity (Net MWe): 810
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	8,016	57,720
12. Number Of Hours Reactor Was Critical	720	3,014.2	24,073.5
13. Reactor Reserve Shutdown Hours	0	0	4,482.8
14. Hours Generator On-Line	720	2,902.1	23,056.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,868,403.0	7,070,409.7	50,699,350
17. Gross Electrical Energy Generated (MWH)	608,700	2,270,900	15,921,340
18. Net Electrical Energy Generated (MWH)	582,742	2,123,886	14,618,462
19. Unit Service Factor	100.0	36.2	42.2
20. Unit Availability Factor	100.0	36.2	42.2
21. Unit Capacity Factor (Using MDC Net)	99.9	32.7	34.5
22. Unit Capacity Factor (Using DER Net)	95.0	31.1	32.8
23. Unit Forced Outage Rate	0	6.7	37.0
24. Shutdowns Scheduled Over Next 6 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>