OPERATING DATA REPORT

DOCKET NO. 50-334
DATE 1/6/81
COMPLETED BY D. R. Timko
TELEPHONE 412-643-5308

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: December 1980
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): 845
7. Maximum Dependable Capacity (Net MWe): 810

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) 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	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	8784	40,951
12. Number Of Hours Reactor Was Critical	422.33	755.96	14,500.67
13. Reactor Reserve Shutdown Hours	0	0	4,482.8
14. Hours Generator On-Line	421.9	601.18	13,706.25
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	916,650.53	1,133,639.82	28,107,893.15
17. Gross Electrical Energy Generated (MWH)	303,200	349,400	8,627,340
18. Net Electrical Energy Generated (MWH)	278,959	290,761	7,861,504
19. Unit Service Factor	56.7	6.8	34.2
20. Unit Availability Factor	56.7	6.8	34.2
21. Unit Capacity Factor (Using MDC Net)	46.3	4.2	26.4
22. Unit Capacity Factor (Using DER Net)	44.0	4.0	25.1
23. Unit Forced Outage Rate	43.3	39.2	46.1

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Major modification outage/May 15, 1981/6 weeks

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 1/8/81

26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY	N/A	N/A
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

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(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334
UNIT BVPS Unit #1
DATE 1/6/81
COMPLETED BY D. R. Timko
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MONTH December 1980

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	443	17	808
2	509	18	340
3	610	19	0
4	553	20	0
5	622	21	0
6	627	22	0
7	619	23	0
8	672	24	0
9	677	25	0
10	734	26	0
11	692	27	0
12	652	28	0
13	803	29	0
14	799	30	0
15	804	31	0
16	803		

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, 1980

DOCKET NO. 50-334
UNIT NAME BVPS Unit #1
DATE 1/6/81
COMPLETED BY D. R. Timko
TELEPHONE 412-643-5308

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
7	801218	F	322.1	A	1		CB	VALVEX	Unit shut down to repair leaking pressurizer safety valves. The main safety valves had minor corrosive deposits; the pilot valves were not leaking.

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-Other (Explain)

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

5
Exhibit I - Same Source

(9/77)

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - DECEMBER 1980

December 1 — Station in Operational Mode 1 at nominal 48% reactor power. Increased station load to 58% power.

December 2 — Station in Operational Mode 1 at nominal 58% reactor power. Performed station calorimetric measurements and adjusted the Nuclear Instrumentation System to correspond. Returned the 1A Main Feedwater Pump to service and began increasing station load.

December 3 — Station in Operational Mode 1 at nominal 64% reactor power. Increased station load to 75% power.

December 4 — Station in Operational Mode 1 at nominal 75% reactor power. At 0130 hours, the boron concentration in the Boron Injection Tank was found to be too high and an orderly shutdown was initiated pending dilution to the proper boron concentration. By 0253 hours the boron concentration was within specifications and the station load was approximately 28% power. The orderly shutdown was terminated and a load increase to 75% power was begun.

December 5 through December 7 — Station in Operational Mode 1 at nominal 75% reactor power. Began increasing station load to 90% reactor power at the rate of 1%/hour.

December 8 through December 10 — Station in Operational Mode 1 at nominal 80% reactor power. Load increase to 90% power was in progress with brief periods of stabilization to supress flux oscillations. Achieved 90% power at 0500 hours on December 10th.

December 11 through December 12 — Station in Operational Mode 1 at nominal 89% reactor power. Began increasing station load to 100% power at 1%/hour. From 1125 hours to 1135 hours the load was reduced from 92% to 80% power because of low suction pressure at the main feedwater pumps. At 2225 hours, began reducing load to approximately 35% power to permit cleaning the condensate pump strainers. At 0440 hours on December 12th, began increasing station load from 40% to 80% power at about 1%/minute. Reached 80% power at 0555 hours and continued increasing load at 1%/hour. Station reached nominal full load at 2035 hours on December 12th.

December 13 through December 17 — Station in Operational Mode 1 at nominal 99% reactor power.

December 18 — Station in Operational Mode 1 at nominal 99% reactor power. From 0244 hours to 0306 hours, the power level was being reduced to 90% power to perform the Power Coefficient Measurement. Load was then increased back to full power. At 0411 hours, the pressurizer safety

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - DECEMBER 1980 (Continued)

valve discharge line high temperature alarm activated, indicating possible leakage through [RV-RC-551C]. At 0907, commenced station shutdown to mode 5 for valve repairs. The main output circuit breakers were tripped open at 1354 hours and the turbine was tripped at 1356 hours. The reactor tripped at 1419 hours when source range channel N-32 spiked high during re-energization. Commenced RCS cooldown at 1735 hours and entered mode 4 at 2129 hours.

December 19 — Station in Operational Mode 4 at approximately 318F and 500 psig. Cooldown of the RCS was in progress. The Residual Heat Removal System was placed into service at 0305 hours and the station entered mode 5 at 1820 hours.

December 20 — Station in Operational Mode 5 at approximately 170F and 30 psig. The RCS cooldown was continuing.

December 21 through December 22 — Station in Operational Mode 5 at approximately 140F and atmospheric pressure. Containment purge was in progress. The containment air-lock doors were opened at 1515 hours on December 22nd.

December 23 through December 27 — Station in Operational Mode 5 at approximately 140F and atmospheric pressure. Two (of three) pressurizer safety valves were removed, shipped off-site for repairs and re-installed.

December 28 through December 29 — Station in Operational Mode 5 at approximately 155F and 15 psig. RCS filling and venting was in progress and heat tracing problems for the Refueling Water Storage Tank (RWST) instrumentation lines were being resolved. The pressurizer steam bubble was established at about 0250 hours on December 29th and drawing the containment vacuum was begun at 1715 hours. Pressurizer heat-up and RCS pressurization was begun at 1840 hours.

December 30 through December 31 — Station in Operational Mode 5 at approximately 142F and 300 psig. Pressurizer heat-up to increase RCS pressure was in progress. The 1C Reactor Coolant Pump was started at 1812 hours on December 30th and the 1A Reactor Coolant Pump was started at 0419 hours on December 31st to increase the RCS temperature. The Station entered mode 4 at 0423 hours and the Residual Heat Removal system was isolated at 1715 hours with the RCS heat-up in progress.

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station

MAJOR SAFETY - RELATED MAINTENANCE - DECEMBER 1980

1. Two (of three) pressurizer safety valves [RV-RC-551A] and 551C were removed, the seats were polished and the valves were re-installed after leakage was detected.

2. Heat tracing and insulation of RWST instrument lines were repaired to provide more reliable protection against freezing.