

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - APRIL, 1984

April 1 through April 7 The station was in operational mode 1 with reactor power a nominal 100%. The reactor coolant system was at normal operating temperature and pressure.

April 8 The station was in operational mode 1 with reactor power a nominal 100%. At 2015 hours, the standby heater drain pump started automatically due to a high level in the heater drain tank. Local investigation revealed that the heater drain tank normal level control valve had a broken stem. The plant stabilized itself and the level in the heater drain tank was being controlled by the high level control valve.

At 2021 hours, a reduction in reactor power was begun in order to shutdown the heater drain pumps and isolate the level control valve. At 2130 hours, reactor power was stabilized at 38% and both heater drain pumps were shutdown.

April 9 The station was operating at reduced power while repairs were being made to the normal level control valve on the heater drain tank. At 0537 hours, a check of steam generator cation conductivity revealed a possible tube leak in the main condenser. After confirming the existence of a leak in the 1A condenser waterbox, reactor power was reduced to 30%. At 0608 hours, due to high steam generator cation conductivity, the station entered operational mode 2. The output breakers on the main unit generator were opened at 0715 hours.

Work began on isolating the 1A main condenser waterbox. At 1230 hours, condenser vacuum was broken to allow a clearance to be placed on the 1A waterbox. A bleed and feed operation was begun on the condenser hotwell to reduce cation conductivity. By 1740 hours, hotwell chemistry had improved sufficiently to allow station startup. Condenser vacuum was drawn and the main unit generator output breakers were closed at 2220 hours.

April 10 The station was in operational mode 1 with reactor power being maintained at 28%. Repairs were being made to the heater drain tank normal level control valve, LCV-SD-106A, and the 1A condenser waterbox was isolated for the plugging of leaking tubes.

At 0230 hours, repairs were completed on LCV-SD-106A and the valve was stroked successfully. Reactor power was steadily increased until 0445 hours when the increase was halted at 82% upon reaching a  $\Delta T$  of 30°F across the 1D condenser waterbox. Reactor power was reduced to 65% at 0720 hours due to a high  $\Delta T$  across the 1B condenser waterbox. Power was increased back to 75% at 1115 hours.

The 1A condenser waterbox was returned to service at 1847 hours and a reactor power increase was begun. A nominal 100% reactor power was reached at approximately 2400 hours.

April 11  
through  
April 30

The station was in operational mode 1 with reactor power a nominal 100%. The reactor coolant system was at normal operating temperature and pressure.

**OPERATING DATA REPORT**

DOCKET NO. 50-334  
 DATE May 3, 1984  
 COMPLETED BY J. L. Holtz  
 TELEPHONE 412-643-

**OPERATING STATUS**

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: \_\_\_\_\_
3. Licensed Thermal Power (MWt): 2660
4. Nameplate Rating (Gross MWe): 923
5. Design Electrical Rating (Net MWe): 835
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
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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	719	2,903	70,127
12. Number Of Hours Reactor Was Critical	719	2,704.7	33,584.1
13. Reactor Reserve Shutdown Hours	0	0	4,482.8
14. Hours Generator On-Line	703.9	2,541.4	32,320.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,815,222	6,442,153.2	74,031,691.7
17. Gross Electrical Energy Generated (MWH)	587,000	2,087,500	23,516,440
18. Net Electrical Energy Generated (MWH)	551,750	1,962,165	21,851,053
19. Unit Service Factor	97.9	87.5	48.3
20. Unit Availability Factor	97.9	87.5	48.3
21. Unit Capacity Factor (Using MDC Net)	94.7	83.4	42.0
22. Unit Capacity Factor (Using DER Net)	91.9	80.9	40.7
23. Unit Forced Outage Rate	2.1	3.9	29.3

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: \_\_\_\_\_

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334  
 UNIT BVPS Unit #1  
 DATE May 3, 1984  
 COMPLETED BY J. L. Holtz  
 TELEPHONE (412) 640-136

MONTH April

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	825	17	783
2	784	18	825
3	784	19	825
4	825	20	783
5	784	21	826
6	825	22	825
7	783	23	784
8	743	24	825
9	130	25	783
10	538	26	785
11	825	27	783
12	784	28	826
13	784	29	777
14	825	30	783
15	784	31	
16	784		

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.

MAJOR MAINTENANCE - APRIL, 1984

1. Repaired sheared valve stem on heater drain tank normal level control valve (LCV-SD-106B)
2. Plugged various tubes identified to be leaking in the main condenser 1A waterbox.

### UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-334  
 UNIT NAME BVPS Unit #1  
 DATE 5/3/84  
 COMPLETED BY J. L. Holtz  
 TELEPHONE (412) 643-1369

REPORT MONTH April

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 Codes	Cause & Corrective Action to Prevent Recurrence
6	04/09/84	F	15.1	A	1	N/A	HF	HTEXCH	<p>A tube leak in the main condenser's 1A waterbox was discovered at 0537 hours. The station was taken off-line at 0715 hours due to high cation conductivity in the steam generators.</p> <p>The 1A waterbox was isolated and the main unit generator was synchronized to the grid at 2220 hours.</p>

<sup>1</sup>  
 F - Forced  
 S - Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1 - Manual  
 2 - Manual Scram  
 3 - Automatic Scram  
 4 - Continued From Previous Month  
 5 - Reduction  
 9 - Other

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

<sup>5</sup>  
 Exhibit I - Same Source

RPI MALFUNCTION

At 0400 hours on the 9th, RPI's for the entire Control Bank D were found to be reading greater than 12 steps above the group demand counters. Primary voltages were read at the process racks and rod B-8 was found to be reading one step out of alignment. The bank was then driven in to 193 steps for delta flux considerations. Primary voltage readings at 0420 hours showed all rods to be in alignment.

The RPI's for Control Bank D were subsequently recalibrated on April 14 through 17, 1984.



**Duquesne Light**

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

Telephone (412) 393-6000

May 3, 1984

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

United States 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 the month of April, 1984.

Very truly yours,

J. J. Carey  
Vice President  
Nuclear Division

Enclosures

cc: NRC Regional Office, King of Prussia, PA

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