

OPERATING DATA REPORT

DOCKET NO. 50-334
 DATE June 3, 1981
 COMPLETED BY D. R. Timko
 TELEPHONE 412-643-5308

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: May, 1981
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
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	<u>744</u>	<u>3,623</u>	<u>44,567</u>
12. Number Of Hours Reactor Was Critical	<u>556.75</u>	<u>1,887.21</u>	<u>16,417.88</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>4,482.8</u>
14. Hours Generator On-Line	<u>554.58</u>	<u>1,833.34</u>	<u>15,540.59</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,390,796.41</u>	<u>4,303,572.09</u>	<u>32,411,465.24</u>
17. Gross Electrical Energy Generated (MWH)	<u>475,800</u>	<u>1,466,700</u>	<u>10,040,040</u>
18. Net Electrical Energy Generated (MWH)	<u>444,716</u>	<u>1,290,492</u>	<u>9,151,996</u>
19. Unit Service Factor	<u>74.5</u>	<u>50.6</u>	<u>35.9</u>
20. Unit Availability Factor	<u>74.5</u>	<u>50.6</u>	<u>35.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>73.8</u>	<u>44.0</u>	<u>28.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>70.2</u>	<u>41.8</u>	<u>26.9</u>
23. Unit Forced Outage Rate	<u>25.5</u>	<u>49.4</u>	<u>46.6</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):	<u>None</u>		

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast	Achieved
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334
UNIT BVPS Unit #1
DATE June 3, 1981
COMPLETED BY D. R. Timko
TELEPHONE 412-643-5308

MONTH May, 1981

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>793</u>
2	<u>46</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>743</u>
11	<u>808</u>
12	<u>820</u>
13	<u>820</u>
14	<u>804</u>
15	<u>816</u>
16	<u>821</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>804</u>
18	<u>816</u>
19	<u>804</u>
20	<u>808</u>
21	<u>816</u>
22	<u>813</u>
23	<u>817</u>
24	<u>817</u>
25	<u>813</u>
26	<u>809</u>
27	<u>805</u>
28	<u>816</u>
29	<u>805</u>
30	<u>816</u>
31	<u>817</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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH May, 1981

DOCKET NO. 50-334
 UNIT NAME BVPS Unit #1
 DATE June 3, 1981
 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
6	810502	F	189.42	A	3	81-32	CH	VALVEX	Malfunction of "A" feed regulating valve due to disconnected actuator to positioner feedback linkage and a fractured valve stem resulted in a high-high steam generator level reactor trip. The "A" and "C" valve stems were replaced, all three valves were rebuilt, the stem locking anti-rotation devices were properly installed, and all valve actuator to positioner linkage connections were sealed with loc-tite.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - MAY, 1981

May 1 through May 2 Station in Operational Mode 1 at nominal full Reactor power. After a series of vibration transients on the "A" Main Feedwater Lines, the Reactor tripped at 0208 hours on May 2 on a High-High "1A" Steam Generator Level due to a malfunction of the "A" Main Feedwater Regulating Valve. The vibrating of the Main Feedwater lines caused some damage to several snubbers in containment which required a cold plant shutdown for taking radiographs of the "A" Main Feedwater lines to check for possible damage.

May 3 Station in Operational Mode 3 with the Reactor Coolant System pressure and temperature at approximately 2235 PSIG and 547F. At 0012 hours, cooldown of the Reactor Coolant system was begun for repairs and radiographs of the Feedwater lines in Containment. At 0714 hours the Station entered operational Mode 4. Commenced warm-up of the Residual Heat Removal System at 1045 hours. The Residual Heat Removal System was put in service at 1548 hours. The Station entered operational Mode 5 at 2000 hours and Containment vacuum was broken at 2035 hours.

May 4 Station in Operational Mode 5 with the Reactor Coolant System pressure and temperature at approximately 250 PSIG and 184F. At 0715 hours, drainage of the 1A Steam Generator Feedwater line was begun. At 2345 hours, the Feedwater lines finished draining.

May 5 through May 7 Station in Operational Mode 5 with the Reactor Coolant System pressure and temperature at 0 PSIG and 109.5F. On May 5 at 0100 hours, Radiography was begun on the "A" Feedwater lines in Containment and was completed on May 7 at 0130 hours. At 1455 hours on May 7 pressurization of the Reactor Coolant system was begun at 1722 hours drawing containment vacuum was commenced.

May 8 Station in Operational Mode 5 with the Reactor Coolant System pressure and temperature at 340 PSIG and 158F. At 0627 hours, Mode 4 was achieved and at 1030 hours the Reactor Coolant System was held at 340° F to make adjustments on the Residual Heat Inlet Isolation Valve (MOV-RH-700). At 1300 hours the Residual Heat Removal System was taken out of service. The Station entered Mode 3 at 1238 hours.

May 9 Station in Operational Mode 3 with the Reactor Coolant System pressure and temperature at 2240 PSIG and 546F. Criticality was achieved at 2044 hours but the Reactor tripped at 2129 hours due to Low-Low "1C" Steam Generator Level. Criticality was achieved again at 2204 hours. The Main unit was synchronized at 2332 hours.

May 10 Station in Operational Mode 1 at nominal 3% Reactor power level. By 0800 hours the Reactor was 98% of full power.

May 11 through May 31 Station in Operational Mode 1 at nominal full Reactor Power Level.

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station

MAJOR SAFETY-RELATED MAINTENANCE - MAY 1981

1. Repairs were made on ITT Grinnell Snubbers on the "A" Main Feedwater line in Containment due to a series of vibration transients which damaged them.
2. Radiography of the "A" Main Feedwater line in Containment to check for possible damage after finding snubber damage.
3. Repairs on the "A" Main Feedwater Regulating Valve were performed prior to plant start-up.