

DUQUESNE LIGHT COMPANY
Beaver Valley Power Station

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - AUGUST 1982

- August 1 through August 25
The Station is in Operational Mode 1 at a nominal 100% reactor power level. The Reactor Coolant System leak from the primary to secondary side of the 1C Steam Generator has steadily increased from approximately .03 GPM to approximately .07 GPM. On August 10, at 2030 hours reactor power was reduced to 95% for the performance of testing at 2155 hours commenced increasing reactor power back to 100%.
- August 26
Main Feedwater Regulating Valve [FCV-1FW-478] air inlet nipple to the valve diaphragm was sheared off resulting in the loss of air pressure to the valve diaphragm, the valve closure, and the loss of feedwater flow to the 1A Main Steam Generator which resulted in a reactor trip at 0337 hours. At 1209 hours Reactor start-up was commenced, at 1254 hours, the Reactor was critical, and at 1420 hours the Main Unit Generator output breakers were closed. At 1845 hours commenced load reduction from a nominal 45% reactor power to go on By-pass Flow Control Valve [FCV-1FW-499] as Main Feedwater Regulating Valve [FCV-1FW-498] was isolated due to excessive leak by.
- August 27
Holding reactor power stable at a nominal 28% for 1C Steam Generator by-pass flow control on the feedwater supply. At 1600 hours, the Reactor was manually tripped due to an apparent dropped control rod. The dropped rod indication resulted from testing that was in progress. A shorted lead in a piece of test equipment caused the primary to secondary voltage output to go to zero. Indication for the P-8 control rod subsequently indicated zero. The outage scheduled to begin at 1800 hours on the 27th has begun 2 hours early due to the reactor trip. At 1855 hours commenced borating to cold shutdown Zenon free conditions. At 2300 hours Shutdown Banks A and B were withdrawn.
- August 28
Reactor Coolant System cooldown commenced at 0045 hours at a rate of 50°F/hour, and at 0815 hours, the station entered Hot Shutdown Mode 4. At 1202 hours, the Residual Heat Removal System was placed in service, at 1310 hours, the station entered Cold Shutdown Mode 5, and at 1347 hours containment vacuum was broken.
- August 29 through August 31
At 0300 hours on the 29th containment purge was started, at 1959 hours on the 30th began to drain the C Reactor Coolant Loop Hot Leg, and at 0200 hours on the 31st, the C Reactor Coolant Loop Stop Valve Pressurization was placed in service. The Reactor Coolant System Tavg. and pressure are at 120°F and 270 psig.

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MAJOR SAFETY RELATED MAINTENANCE - AUGUST 1982

1. Steam Generator [RC-E-1C] tube plugging in progress to eliminate Reactor Coolant System leakage to the secondary side.
2. The Charging Pump [CH-P-1C] shaft-driven lube oil pump was replaced because the gear drive would not hold pressure.
3. Outboard seal on Component Cooling Pump [CC-P-1A] was replaced.
4. Fire Protection check valve [FP-30] on the discharge of the Pressure Maintenance Pump [FP-P-3] was replaced due to excessive seat leakage which decreased system pressure and caused frequent operation of the pump.

OPERATING DATA REPORT

DOCKET NO. 50-334
 DATE 9-2-82
 COMPLETED BY L. W. Weaver
 TELEPHONE 412-643-5303

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: August 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:
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Notes

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A
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	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5,827	55,535
12. Number Of Hours Reactor Was Critical	630.7	1,177.9	22,237.2
13. Reactor Reserve Shutdown Hours	0	0	4,482.8
14. Hours Generator On-Line	629.3	1,098.9	21,253.0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,597,913.7	2,573,336.4	46,202,276.88
17. Gross Electrical Energy Generated (MWH)	511,600	819,200	14,469,640
18. Net Electrical Energy Generated (MWH)	486,828	773,677	13,268,253
19. Unit Service Factor	84.6	18.9	39.7
20. Unit Availability Factor	84.6	18.9	39.7
21. Unit Capacity Factor (Using MDC Net)	80.8	15.8	32.4
22. Unit Capacity Factor (Using DER Net)	76.8	15.1	30.8
23. Unit Forced Outage Rate	1.7	5.7	38.9
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 | 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 9-2-82
 COMPLETED BY L. W. Weaver
 TELEPHONE (412) 643-5300

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	786
2	786
3	805
4	796
5	804
6	800
7	799
8	791
9	796
10	804
11	804
12	808
13	808
14	808
15	804
16	796

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	792
18	808
19	804
20	800
21	804
22	821
23	813
24	796
25	804
26	198
27	93
28	0
29	0
30	0
31	0

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

DOCKET NO. 50-334
 UNIT NAME BVPS Unit #1
 DATE 9-2-82
 COMPLETED BY L. W. Weaver
 TELEPHONE (412) 643-5303

REPORT MONTH August

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
04	820826	F	10.7	A	3	82-31/03L	CH	VALVEX	Main Feedwater Regulating Valve (FCV-1FW-478) closed after the air inlet nipple to the valve diaphragm was sheared off resulting in the loss of air pressure to the valve diaphragm, the valve closure, and the loss of feedwater flow to the 1A Main Steam Generator. The sheared nipple was replaced and air pressure to the valve diaphragm was restored.
05	820827	S	104	B	2	N/A	CC	HTEXCH	Manually tripped the reactor due to an apparent dropped rod. Plant remained shut down for scheduled Steam Generator (RC-E-1C) tube repair.

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-Continued From Previous Month
 5-Reduction
 9-Other

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

⁵
 Exhibit I - Same Source