OPERATING DATA REPORT

DOCKET NO. 50-334
DATE 10/4/79
COMPLETED BY A.E.Spitznogle
TELEPHONE. 412-643-5023

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: September, 1979
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): 817

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	720	6,551	29,255
12. Number Of Hours Reactor Was Critical	633.81	2,146.19	12,342.26
13. Reactor Reserve Shutdown Hours	0	0	4,482.8
14. Hours Generator On-Line	630.65	2,076.67	11,680.84
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,419,642.12	4,626,960.30	25,495,355.25
17. Gross Electrical Energy Generated (MWH)	448,900	1,483,400	7,822,140
18. Net Electrical Energy Generated (MWH)	416,063	1,345,256	7,167,624
19. Unit Service Factor	87.6	32.8	42.4
20. Unit Availability Factor	87.6	32.8	42.4
21. Unit Capacity Factor (Using MDC Net)	70.7	25.1	35.8
22. Unit Capacity Factor (Using DER Net)	67.8	24.1	34.3
23. Unit Forced Outage Rate	12.4	68.4	50.0

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
November, 1979 - Major Modification and Refueling Outage (approximately six months scheduled duration).

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

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

1152 174

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(9/77)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334
UNIT BVPS Unit #1
DATE 10/4/79
COMPLETED BY A.E.Spitznogle
TELEPHONE 412-643-5023

MONTH September, 1979

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	780	17	783
2	771	18	775
3	771	19	783
4	775	20	139
5	775	21	0
6	771	22	0
7	783	23	0
8	787	24	338
9	791	25	360
10	787	26	376
11	771	27	368
12	770	28	360
13	762	29	360
14	767	30	372
15	763	31	---
16	788		

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.

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September, 1979

DOCKET NO. 50-334
UNIT NAME BVPS Unit #1
DATE 10/4/79
COMPLETED BY A. E. Spitznogle
TELEPHONE 412-643-5023

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
14	790920	F	89.35	A	3	79-39	ED	GENERA	Loss of No. 4 Inverter caused reactor trip with a safety injection. Replaced output fuses and returned inverter to service. Unit placed back on the line.

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

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DUQUESNE LIGHT COMPANY
Beaver Valley Power Station
Unit No. 1
Docket No. 50-334

Narrative Summary Of Operating Experience - September, 1979

Date	Event
September 1 to September 9	Station in Operational Mode 1 at a nominal 100% power.
September 10 to September 13	Station in Operational Mode 1 at a nominal 100% power. The 1A Low Head Safety Injection Pump was declared out of service at 1300 hours on September 10 when the surveillance test flow criteria were not met. The check valve in the recirculation flow and test line was replaced and the pump returned to service at 1257 hours on September 13.
September 14 to September 16	Station in Operational Mode 1 at a nominal 100% power.
September 17 to September 18	Station in Operational Mode 1 at a nominal 100% power. Removed the No. 1 Emergency Diesel Generator from service at 1025 hours to repair a leak in the diesel generator cooling water line and returned the diesel generator to service at 0130 hours on September 18. At 0215 hours, removed the No. 4 Inverter from service and placed the No. 4 Vital Bus on its auxiliary power supply.
September 19 to September 20	Station in Operational Mode 1 at a nominal 100% power. The No. 4 Inverter was returned to service at 0139 hours on September 20. At 0502 hours, failure of the inverter caused a reactor trip and safety injection due to momentary opening of the steam dump valves when the No. 4 Vital Bus was de-energized and re-energized during the inverter failure. The Station was then placed into a stable Operational Mode 3 condition. At 1108 hours, an attempt was made to place the No. 4 Inverter back into service, causing another reactor trip (shutdown banks only) and safety injection. The vital bus was de-energized during the transfer, causing the high steam flow bistables to trip. The reactor plant was in a slightly cooled-down condition and had just passed through the low-low Tavg limit. The operator transferred the vital bus before blocking the safety injection signal, de-energizing the steam flow bistables and causing the reactor trip and safety injection. At 1200 hours, the 1A Low Head Safety Injection Pump was removed from service to inspect the discharge line check valve. At approximately 1400 hours, the No. 4 Inverter was placed into service.

Beaver Valley Power Station, Unit No. 1
Docket No. 50-334

Narrative Summary Of Operating Experience - September, 1979 Continued)

Date	Event
September 21 to September 23	Station in Operational Mode 3 with Tavg approximately 545F. Maintenance was being performed on the 1A Low Head Safety Injection Pump, the "A" River Water Header and the Nuclear Instrumentation System from September 21 through September 23. At 2240 hours on September 21, the main steam trip valves were returned to service after replacement of the operating rupture discs. The Boron Injection Tank was returned to service at 0805 hours on September 22. At 1530 hours, the fuses to the condenser steam dump bistables providing for fast valve operation by bypassing the electrical-pneumatic signal converters were removed as an interim measure to prevent a recurrence of the previous plant trip. The reactor was critical at 1913 hours on September 23, the main turbine roll-off commenced at 2048 hours, and the main unit output circuit breakers were closed at 2223 hours with 50 MWe load.
September 24	Station in Operational Mode 1. Increasing power and reached 50% power at 0116 hours.
September 25	Station in Operational Mode 1 at a nominal 50% power.
September 26 to September 27	Station in Operational Mode 1 at a nominal 50% power. Placed the 1A Heater Drain Pump on clearance for repacking at 0020 hours. At 0200 hours, the Moisture Separator Reheaters were placed into service for testing. The Moisture Separator Reheaters were isolated at 2100 hours.
September 28 to September 30	Station in Operational Mode 1 at a nominal 50% power.

Major Safety Related Maintenance - September, 1979

1. Re-aligned and re-coupled the 1C Charging Pump.

2. Repaired leaks in the cooling water lines to the No. 1 Emergency Diesel Generator. At first, the flanges were tightered; but, when the leakage continued, a section of piping was replaced.

3. Replaced the rupture discs on the main steam trip valves' pneumatic operators after the discs were ruptured during the reactor trip and safety injection on September 20.

4. Performed various repairs to the No. 4 Inverter. The initial problem was frequency drift, which was corrected by replacing the oscillator card during September 18-20. The No. 4 Inverter failure was investigated after the reactor trip. The output fuses had blown but no reason could be determined. The fuses were replaced and the unit was returned to service on September 20.