



Duquesne Light

Nuclear Group
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September 8, 1995

Beaver Valley Power Station
Unit 1 - Docket No. 50-334, License No. DPR-66
Unit 2 - Docket No. 50-412, License No. NPF-73
Monthly Operating Report

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

In accordance with Appendix A, Technical Specifications, the Monthly Operating Report is submitted for Unit 1 and Unit 2 for the month of August, 1995.

Respectfully,

T. P. Noonan
T. P. Noonan
Division Vice President,
Nuclear Operations /
Plant Manager

DTJ/slp

Enclosures

cc: NRC Regional Office
King of Prussia, PA

100138



The Nuclear Professionals

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NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

AUGUST 1995

- August 1 through August 16 The Unit operated at a nominal value of 100% output.
- August 17 The Unit continued to operate at a nominal value of 100% output until 1051 hours when a reduction in output was commenced due to decreasing condenser vacuum. Output was reduced to approximately 99% while repairs were completed on a broken instrument air line to an auxiliary steam regulating valve which regulates auxiliary steam to the condenser air ejectors. The Unit was restored to a nominal value of 100% output at 1300 hours.
- August 18 The Unit continued to operate at a nominal value of 100% output until 2053 hours when a controlled shutdown was commenced due to reactor coolant system pressure boundary leakage on the socket weld of a vent valve on the "A" reactor coolant pump seal bypass piping.
- August 19 The Unit was removed from the electrical grid when the output breakers were opened at 0034 hours. Mode 3 was entered at 0132 hours and Mode 4 was entered at 1641 hours while the Unit continued to cooldown to Mode 5.
- August 20 The Unit entered Mode 5 at 0233 hours.
- August 21 through August 24 The Unit remained in Mode 5 while repair of the weld leak at the vent valve on the "A" reactor coolant pump seal bypass piping was completed. Additional permanent repairs of leaks on the "A" main steam header, the "B" and "C" steam generator manways and the main unit turbine were also completed during this time period.
- August 25 The Unit remained in Mode 5 until 1110 hours when Mode 4 was entered. Mode 3 was entered at 2131 hours.
- August 26 The Unit remained in Mode 3 while preparations for entering Mode 2 continued.
- August 27 The Unit remained in Mode 3 until 1028 hours when Mode 2 was entered. The reactor was taken critical at 1122 hours. Mode 1 was entered at 1542 hours. The Unit was synchronized to the electrical grid at 1727 hours and power escalation was commenced.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

AUGUST 1995

(Continued)

August 28 At 0134 hours, power escalation was halted at approximately 59% output due to the quadrant power tilt ratio (QPTR) exceeding technical specification limits. A reduction to below 50% output was commenced at 0238 hours. An output of approximately 49% was achieved at 0324 hours. Escalation to full power was resumed at 0650 hours following a satisfactory QPTR. The Unit achieved a nominal value of 100% output at 1825 hours.

August 29 through August 31 The Unit operated at a nominal value of 100% output for the remainder of the report period.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334
 UNIT EVPS Unit 1
 DATE Sept. 5, 1995
 COMPLETED BY David T. Jones
 TELEPHONE (412) 393-7553

MONTH August 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>813</u>	17	<u>817</u>
2	<u>813</u>	18	<u>763</u>
3	<u>804</u>	19	<u>0</u>
4	<u>817</u>	20	<u>0</u>
5	<u>804</u>	21	<u>0</u>
6	<u>800</u>	22	<u>0</u>
7	<u>813</u>	23	<u>0</u>
8	<u>821</u>	24	<u>0</u>
9	<u>817</u>	25	<u>0</u>
10	<u>817</u>	26	<u>0</u>
11	<u>804</u>	27	<u>5</u>
12	<u>804</u>	28	<u>600</u>
13	<u>796</u>	29	<u>808</u>
14	<u>808</u>	30	<u>821</u>
15	<u>813</u>	31	<u>808</u>
16	<u>798</u>		

INSTRUCTIONS

On this form, list the average daily unit power level MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

OPERATING DATA REPORT

DOCKET NO.: 50-334
 REPORT DATE: 09/06/95
 COMPLETED BY: DAVID T. JONES
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1
2. REPORTING PERIOD: AUGUST 1995
3. LICENSED THERMAL POWER (MWt): 2652
4. NAMEPLATE RATING (Gross MWe): 923
5. DESIGN ELECTRICAL RATING (Net MWe): 835
6. MAX. DEPENDABLE CAPACITY (Gross MWe): 860
7. MAX. DEPENDABLE CAPACITY (Net MWe): 810

Notes

8. IF CHANGES OCCUR IN CAPACITY RATINGS 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	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	5831.0	169487.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	541.2	4125.3	110682.1
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	535.1	4053.8	108591.5
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1381737.0	10412280.0	261739346.5
17. GROSS ELECT. ENERGY GEN. (MWH):	447940.0	3415490.0	84441457.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	417930.0	3202690.0	78926594.0
19. UNIT SERVICE FACTOR: (PERCENT)	71.9	69.5	65.9
20. UNIT AVAILABILITY FACTOR: (PERCENT)	71.9	69.5	65.9
21. UNIT CAPACITY FACTOR (MDC): PCT	69.3	67.8	59.9
22. UNIT CAPACITY FACTOR (DER): PCT	67.3	65.8	58.1
23. UNIT FORCED OUTAGE RATE: (PERCENT)	28.1	5.7	15.8

24. SHUTDOWNS SCHEDULED OVER NEXT SIX 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	<u>N/A</u>	<u>N/A</u>
INITIAL ELECTRICITY	<u>N/A</u>	<u>N/A</u>
COMMERCIAL OPERATION	<u>N/A</u>	<u>N/A</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS (>20%)

Docket No. 50-334
 Unit Name BVPS Unit #1
 Date Sept. 5, 1995
 Completed By David T. Jones
 Telephone (412) 393-7553

REPORT MONTH August 1995

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
10	950819	F	208.9	A	1	1-95-006	CI	VALVEX	A controlled shutdown was made to repair reactor coolant system pressure boundary leakage on the socket weld of a vent valve on the "A" reactor coolant pump seal bypass piping.

¹
 F-Forced
 S-Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Exam
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Cont'd. from Previous Month
 5-Reduction
 9-Other

⁴
 Exhibit F-Instructions for Preparation of Data Entry Sheet's for Licensee Event Report (LER) File (NUREG0161).

⁵
 Exhibit H-Same Source.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

AUGUST 1995

- August 1 through August 8 The Unit operated at a nominal value of 100% output.
- August 9 The Unit continued to operate at a nominal value of 100% output until 2345 hours when a planned reduction in output was commenced to remove the "B" separator drain receiver drain pump from service for maintenance.
- August 10 An output of approximately 89% was achieved at 0140 hours. The Unit remained at approximately 89% output while maintenance on the "B" separator drain receiver drain pump continued.
- August 11 Following completion of maintenance on the "B" separator drain receiver drain pump, power escalation was commenced at 2050 hours. The Unit achieved a nominal value of 100% output at 2230 hours.
- August 12 With unusually warm atmospheric conditions present, incremental load reductions to a minimum output of approximately 95% were commenced at 1330 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell began to improve, output was incrementally increased and a nominal value of 100% output was achieved at 2115 hours.
- August 13 The Unit continued to operate at a nominal value of 100% output until 1033 hours when a reactor trip due to a generator/turbine trip occurred. The plant was subsequently stabilized in Mode 3. The generator trip was determined to be caused by a loss of main unit generator exciter field due to a grounded field current resistor.
- August 14 Following removal of the resistor ground, reactor startup was commenced and Mode 2 was entered at 1334 hours. The reactor was taken critical at 1453 hours. Mode 1 was entered at 1652 hours.
- August 15 The Unit was synchronized to the electrical grid at 0114 hours and power escalation was commenced.
- August 16 The Unit achieved a nominal value of 100% output at 0300 hours. With unusually warm atmospheric conditions present, incremental load reductions to a minimum output of approximately 95% were commenced at 1340 hours to stabilize condenser hotwell conditions.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

AUGUST 1995

(Continued)

- August 17 Once conditions in the condenser hotwell began to improve, output was incrementally increased and a nominal value of 100% output was achieved at 0038 hours.
- August 18 through August 28 The Unit operated at a nominal value of 100% output.
- August 29 The Unit continued to operate at a nominal value of 100% output until 1653 hours when a reduction in output to approximately 92% was commenced to remove the "B" first point heater from service in order to repair the "B" first point heater normal level control valve. Following completion of removal of the "B" first point heater from service, power escalation was commenced at 2023 hours while repair work on "B" first point heater normal level control valve continued. The Unit achieved a nominal value of 100% output at 2215 hours, however, a loss of approximately 30 MWe occurred due to the first point heater being unavailable.
- August 30 The Unit continued to operate at a nominal value of 100% output, however, a loss of approximately 30 MWe continued to occur due to the first point heater being unavailable.
- August 31 The Unit continued to operate at a nominal value of 100% output, however, a loss of approximately 30 MWe continued to occur due to the first point heater being unavailable. Following completion of repairs on the "B" first point heater normal level control valve, the first point heater was returned to service at 1135 hours. Maximum electrical output was subsequently restored, however, a slight load reduction to approximately 97% occurred while returning the heater to service. At 1508 hours, output was reduced to approximately 95% to support post maintenance testing of the "C" atmospheric steam dump valve. At 2045 hours, the "C" atmospheric steam dump valve was returned to service and escalation to full power operation commenced. As of the end of this report period, the Unit was at approximately 98% output.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-412
 UNIT BVPS Unit 2
 DATE Sept. 5, 1995
 COMPLETED BY David T. Jones
 TELEPHONE (412) 393-7553

MONTH August 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>815</u>	17	<u>814</u>
2	<u>814</u>	18	<u>815</u>
3	<u>811</u>	19	<u>814</u>
4	<u>813</u>	20	<u>815</u>
5	<u>820</u>	21	<u>816</u>
6	<u>819</u>	22	<u>826</u>
7	<u>818</u>	23	<u>816</u>
8	<u>824</u>	24	<u>821</u>
9	<u>825</u>	25	<u>828</u>
10	<u>736</u>	26	<u>822</u>
11	<u>741</u>	27	<u>820</u>
12	<u>803</u>	28	<u>816</u>
13	<u>338</u>	29	<u>802</u>
14	<u>0</u>	30	<u>793</u>
15	<u>425</u>	31	<u>788</u>
16	<u>802</u>		

INSTRUCTIONS

On this form, list the average daily unit power level MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

OPERATING DATA REPORT

DOCKET NO.: 50-412
 REPORT DATE: 09/06/95
 COMPLETED BY: DAVID T. JONES
 TELEPHONE: (412) 393-7553

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2
2. REPORTING PERIOD: AUGUST 1995
3. LICENSED THERMAL POWER (MWt): 2652
4. NAMEPLATE RATING (Gross MWe): 923
5. DESIGN ELECTRICAL RATING (Net MWe): 836
6. MAX. DEPENDABLE CAPACITY (Gross MWe): 870
7. MAX. DEPENDABLE CAPACITY (Net MWe): 820

Notes

8. IF CHANGES OCCUR IN CAPACITY RATINGS 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	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	744.0	5831.0	68270.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	715.7	4728.3	58552.8
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	705.3	4688.0	58165.6
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1825932.0	11780829.0	144302151.0
17. GROSS ELECT. ENERGY GEN. (MWH):	593739.0	3875560.0	46927353.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	561482.0	3664856.0	44339861.0
19. UNIT SERVICE FACTOR: (PERCENT)	94.8	80.4	85.2
20. UNIT AVAILABILITY FACTOR: (PERCENT)	94.8	80.4	85.2
21. UNIT CAPACITY FACTOR (MDC): PCT	92.0	76.6	78.8
22. UNIT CAPACITY FACTOR (DER): PCT	90.3	75.2	77.7
23. UNIT FORCED OUTAGE RATE: (PERCENT)	5.2	0.8	2.8

24. SHUTDOWNS SCHEDULED OVER NEXT SIX 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	<u>N/A</u>	<u>N/A</u>
INITIAL ELECTRICITY	<u>N/A</u>	<u>N/A</u>
COMMERCIAL OPERATION	<u>N/A</u>	<u>N/A</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS (≥204)

Docket No. 50-412
 Unit Name BVPS Unit #2
 Date Sept. 5, 1995
 Completed By David T. Jones
 Telephone (412) 393-7553

REPORT MONTH August 1995

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
8	950813	F	38.7	A	3	2-95-006	NA	GENERA	A reactor trip occurred due to a generator/turbine trip caused by a loss of the main unit generator exciter field due to a grounded field current resistor. The resistor ground was removed and the Unit was returned to full power operation.

¹
 F-Forced
 S-Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Exam
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Cont'd. from Previous Month
 5-Reduction
 9-Other

⁴
 Exhibit F-Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG0161).

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 Exhibit H-Same Source.