



Duquesne Light

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

Telephone (412) 393-6000

September 9, 1996

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, 1996.

Respectfully,

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

DTJ/slp

Enclosures

cc: NRC Regional Office
King of Prussia, PA

9609170340 960831
PDR ADOCK 05000334
R PDR



The Nuclear Professionals

IR244

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

AUGUST 1996

August 1 through August 4	The Unit operated at a nominal value of 100% output.
August 5	The Unit operated at a nominal value of 100% output until 0030 hours when a forced shutdown was commenced due to water found in the "C" reactor coolant pump lube oil system. At 0832 hours, the Unit was taken off-line when the main unit generator output breakers were opened. Mode 3 was entered at 0856 hours. At 1255 hours, the Unit commenced reactor coolant system cooldown to Mode 5. Mode 4 was entered at 1901 hours.
August 6	Mode 5 was entered at 0709 hours.
August 7 through August 14	The Unit remained in Mode 5 while repair of the "C" reactor coolant pump motor lube oil cooler was performed. In addition, modifications to install thermal relief protection on various containment penetrations was begun.
August 15 through August 19	The Unit remained in Mode 5 to complete installation of thermal relief valves in various containment penetrations while plans for Unit startup continued.
August 20	Mode 4 was entered at 0020 hours as plant heatup continued. Mode 3 was entered at 0651 hours.
August 21	Mode 2 was entered at 1840 hours and the reactor was taken critical at 1946 hours. Mode 1 was entered at 2053 hours.
August 22	The main unit generator output breakers were closed and the Unit was synchronized to the electrical grid at 1001 hours. Output was then escalated towards 100% power.
August 23	The Unit achieved approximately 100% output at 1200 hours. In addition, the analog rod position indication (ARPI) for control rod H-2 was also declared inoperable at 1200 hours due to reading greater than the technical specification limit of 12 steps. At 1235 hours, the ARPI reading for control rod H-2 was returned to within 12 steps and subsequently returned to service.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 1

AUGUST 1996

(Continued)

August 24
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 BVPS Unit 1
DATE September 1, 1996
COMPLETED BY David T. Jones
TELEPHONE (412) 393-4962

MONTH August 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>818</u>	17	<u>0</u>
2	<u>819</u>	18	<u>0</u>
3	<u>818</u>	19	<u>0</u>
4	<u>814</u>	20	<u>0</u>
5	<u>178</u>	21	<u>0</u>
6	<u>0</u>	22	<u>123</u>
7	<u>0</u>	23	<u>712</u>
8	<u>0</u>	24	<u>814</u>
9	<u>0</u>	25	<u>818</u>
10	<u>0</u>	26	<u>819</u>
11	<u>0</u>	27	<u>817</u>
12	<u>0</u>	28	<u>815</u>
13	<u>0</u>	29	<u>818</u>
14	<u>0</u>	30	<u>820</u>
15	<u>0</u>	31	<u>817</u>
16	<u>0</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: 09/04/96
 COMPLETED BY: DAVID T. JONES
 TELEPHONE: (412) 393-4962

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1		*Notes	*
2. REPORTING PERIOD: AUGUST 1996		*	*
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	*	*

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	5855.0	178271.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	349.2	4267.1	117718.9
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	334.5	4205.5	115557.6
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	847659.0	10625858.0	279547920.5
17. GROSS ELECT. ENERGY GEN. (MWH):	276398.0	3499435.0	90313452.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	253488.0	3280135.0	84446959.0
19. UNIT SERVICE FACTOR: (PERCENT)	45.0	71.8	66.6
20. UNIT AVAILABILITY FACTOR: (PERCENT)	45.0	71.8	66.6
21. UNIT CAPACITY FACTOR (MDC): PCT	42.1	69.2	60.8
22. UNIT CAPACITY FACTOR (DER): PCT	40.8	67.1	59.0
23. UNIT FORCED OUTAGE RATE: (PERCENT)	55.0	9.7	15.3

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 ($\geq 20\%$)

Docket No. 50-334

Unit Name BVPS Unit #1

Date September 3, 1996

Completed By David T. Jones

Telephone (412) 393-4962

REPORT MONTH August 1996

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	960805	F	325.2	A	1	N/A	CB	HTEXCH	The Unit was shutdown due to water found in the "C" reactor coolant pump lube oil system which required repairs to the motor lube oil cooler.
9	960805	F	84.3	H	9	N/A	SD	PENETR	Modifications to install thermal relief protection on various containment penetrations were also performed during the shutdown.

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).

⁵
Exhibit H-Same Source

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

AUGUST 1996

August: 1 through August 5	The Unit operated at a nominal value of 100% output.
August 6	With unusually warm atmospheric conditions present, incremental load reductions to approximately 97.5% output were commenced at 1522 hours to stabilize condenser hotwell conditions.
August 7	Once conditions in the condenser hotwell had improved, the Unit was returned to full power at 0249 hours. With unusually warm atmospheric conditions still present, incremental load reductions to approximately 96% output were commenced at 1229 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, restoration to full power was commenced at 2218 hours.
August 8	However, the Unit could not be returned to 100% output due to start of the planned end-of-cycle fuel coastdown prior to the 6th refueling outage, which began at 0325 hours. With the Unit operating at approximately 99% output and with unusually warm atmospheric conditions still present, incremental load reductions to approximately 95% output were commenced at 1225 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit was restored to a maximum capable output of approximately 98% at 1851 hours.
August 9 through August 17	The Unit continued with the planned end-of-cycle fuel coastdown prior to the 6th refueling outage.
August 18	With the Unit operating at approximately 89% output, a reduction in output to approximately 79% was commenced at 2003 hours for planned end-of-cycle fuel coastdown prior to the 6th refueling outage.
August 19	An output of approximately 79% was achieved at 0215 hours. The Unit continued with the planned end-of-cycle fuel coastdown prior to the 6th refueling outage.
August 20	With the Unit operating at approximately 78% output and with unusually warm atmospheric conditions present, incremental load reductions to approximately 73% output were commenced at 1334 hours to stabilize condenser hotwell conditions. Once conditions in the condenser hotwell had improved, the Unit was restored to a maximum capable output of approximately 74% at 2400 hours.

NARRATIVE SUMMARY OF
MONTHLY OPERATING EXPERIENCE

UNIT 2

AUGUST 1996

(Continued)

August 21	The Unit continued with the planned end-of-cycle fuel coastdown prior to the 6th refueling outage.
August 22	With the Unit operating at approximately 73% output and with unusually warm atmospheric conditions present, incremental load reductions to approximately 70.5% output were commenced at 1930 hours to stabilize condenser hotwell conditions.
August 23	Once conditions in the condenser hotwell had improved, the Unit was restored to a maximum capable output of approximately 71% at 0600 hours. With the Unit operating at approximately 71% output, a reduction in output to approximately 47% was commenced at 1800 hours for planned end-of-cycle fuel coastdown prior to the 6th refueling outage.
August 24	An output of approximately 47% was achieved at 0205 hours.
August 25 through August 29	The Unit continued with the planned end-of-cycle fuel coastdown prior to the 6th refueling outage.
August 30	With the Unit operating at approximately 46% output, the Unit commenced to shutdown for the 6th refueling outage at 1710 hours. At 1921 hours, the Unit was taken off-line when the main unit generator output breakers were opened beginning the 6th refueling outage. Mode 3 was entered at 2048 hours.
August 31	Mode 4 was entered at 1447 hours. The Unit continued with reactor coolant system cooldown to Mode 5 for the remainder of the report period. Mode 5 was not entered until 0305 hours on September 1, 1996, as the 6th refueling outage continued.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-412
UNIT	BVPS Unit 2
DATE	September 1, 1996
COMPLETED BY	David T. Jones
TELEPHONE	(412) 393-4962

MONTH August 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>821</u>	17	<u>743</u>
2	<u>821</u>	18	<u>734</u>
3	<u>821</u>	19	<u>632</u>
4	<u>815</u>	20	<u>603</u>
5	<u>810</u>	21	<u>562</u>
6	<u>800</u>	22	<u>562</u>
7	<u>789</u>	23	<u>542</u>
8	<u>789</u>	24	<u>336</u>
9	<u>794</u>	25	<u>335</u>
10	<u>788</u>	26	<u>331</u>
11	<u>786</u>	27	<u>326</u>
12	<u>771</u>	28	<u>326</u>
13	<u>768</u>	29	<u>331</u>
14	<u>753</u>	30	<u>254</u>
15	<u>748</u>	31	<u>0</u>
16	<u>747</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: 09/04/96
 COMPLETED BY: DAVID T. JONES
 TELEPHONE: (412) 393-4962

OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 2		*Notes	*
2. REPORTING PERIOD: AUGUST 1996		*	*
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	*****	*

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	5855.0	77054.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	716.8	5827.8	67309.6
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	715.4	5804.9	66899.5
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1529606.0	14669115.0	166493118.0
17. GROSS ELECT. ENERGY GEN. (MWH):	492194.0	4830599.0	54263928.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	462183.0	4579631.0	51299154.0
19. UNIT SERVICE FACTOR: (PERCENT)	96.2	99.1	86.8
20. UNIT AVAILABILITY FACTOR: (PERCENT)	96.2	99.1	86.8
21. UNIT CAPACITY FACTOR (MDC):PCT	75.8	95.4	80.8
22. UNIT CAPACITY FACTOR (DER):PCT	74.3	93.6	79.6
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	0.4	2.5

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):
THE UNIT SHUTDOWN FOR ITS SIXTH REFUELING OUTAGE ON 8/30/96. THE
REFUELING OUTAGE IS SCHEDULED TO LAST FOR 45 DAYS.

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 10/14/96

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. 50-412
 Unit Name BVPS Unit #2
 Date September 3, 1996
 Completed By David T. Jones
 Telephone (412) 393-4962

REPORT MONTH August 1996

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	960808	S	0	H	5	N/A	RC	FUELXX	The Unit began the planned end-of-cycle fuel coastdown prior to the sixth refueling outage.
7	960830	S	28.6	C	1	N/A	RC	FUELXX	The Unit shutdown for its sixth refueling outage.

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).

⁵
 Exhibit H-Same Source