



Nuclear Group  
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November 7, 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 October, 1996.

Respectfully,

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

DTJ/slp

Enclosures

cc: NRC Regional Office  
King of Prussia, PA

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PDR ADOCK 05000334  
R PDR



The Nuclear Professionals

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NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 1

OCTOBER 1996

October 1  
through  
October 31

The Unit operated at a nominal value of 100% output during the entire report period.

In addition to the above, the following Analog Rod Position Indication (ARPI) problems were encountered during the report period and are being reported as required by Technical Specifications.

October 1  
through  
October 29

The Analog Rod Position Indication (ARPI) for control rod H-2 was declared inoperable at 0000 hours on 09/21/96 due to fluctuating and reading greater than the technical specification limit of 12 steps. Actual rod position was verified to be within the 12 step limit by obtaining primary detector voltage readings. Troubleshooting activities continued during the report period. A temporary modification was made to correct the ARPI fluctuations on 10/25/96 at 1849 hours. Several days of in-service observation for stability and reliability were performed prior to declaring the ARPI for control rod H-2 operable on 10/29/96 at 1130 hours.

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334  
UNIT BVPS Unit 1  
DATE November 1, 1996  
COMPLETED BY David T. Jones  
TELEPHONE (412) 393-4962

MONTH October 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>824</u>	17	<u>819</u>
2	<u>822</u>	18	<u>823</u>
3	<u>829</u>	19	<u>826</u>
4	<u>833</u>	20	<u>826</u>
5	<u>829</u>	21	<u>825</u>
6	<u>828</u>	22	<u>824</u>
7	<u>826</u>	23	<u>823</u>
8	<u>828</u>	24	<u>823</u>
9	<u>826</u>	25	<u>823</u>
10	<u>828</u>	26	<u>819</u>
11	<u>830</u>	27	<u>817</u>
12	<u>826</u>	28	<u>822</u>
13	<u>821</u>	29	<u>826</u>
14	<u>823</u>	30	<u>818</u>
15	<u>825</u>	31	<u>826</u>
16	<u>821</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: 11/04/96  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-4962

## OPERATING STATUS

1. UNIT NAME: BEAVER VALLEY POWER STATION, UNIT 1		*Notes	
2. REPORTING PERIOD: OCTOBER 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:	745.0	7320.0	179736.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	745.0	5732.1	119183.9
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
14. HOURS GENERATOR WAS ON LINE:	745.0	5670.5	117022.6
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	1965965.0	14493309.0	283415371.5
17. GROSS ELECT. ENERGY GEN. (MWH):	650840.0	4775065.0	91589082.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	615000.0	4485115.0	85651939.0
19. UNIT SERVICE FACTOR: (PERCENT)	100.0	77.5	66.9
20. UNIT AVAILABILITY FACTOR: (PERCENT)	100.0	77.5	66.9
21. UNIT CAPACITY FACTOR (MDC):PCT	101.9	75.6	61.1
22. UNIT CAPACITY FACTOR (DER):PCT	98.9	73.4	59.3
23. UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	7.4	15.2

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 November 1, 1996

Completed By David T. Jones

Telephone (412) 393-4962

REPORT MONTH October 1996

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
None									

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

NARRATIVE SUMMARY OF  
MONTHLY OPERATING EXPERIENCE

UNIT 2

OCTOBER 1996

October 1 through October 13	The Unit began the report period in Mode 5 as the sixth refueling outage continued.
October 14	Plant recovery/startup from the sixth refueling outage was placed on hold and a forced outage extension was begun at 1921 hours for two reasons. The first reason for the extension was to continue with replacement of several J-series relays in various system component's motor control centers (MCCs). Relay replacement was being done because they were exhibiting signs of accelerated thermal aging from continuous energization which could cause associated loads to become inoperable. The second reason for the extension was to troubleshoot and repair leaking seals on both the "A" and "B" Residual Heat Removal (RHR) Pumps located inside Containment.
October 15 through October 20	The Unit remained in Mode 5 while replacement of J-series relays continued and preparations were made to defuel the reactor in order to permit safe transport of the RHR Pumps for repair.
October 21	Replacement of all J-series relays required to support Unit startup were completed at 1500 hours. The Unit remained in Mode 5 while preparations for defueling the reactor continued.
October 22	Mode 6 was entered at 0400 hours.
October 23 through October 31	The Unit remained in Mode 6 for the remainder of the report period to defuel the reactor and to repair the seals on the RHR Pumps.

# AVERAGE DAILY UNIT POWER LEVEL

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

MONTH October 1996

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</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>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<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.: 50-412  
 REPORT DATE: 11/04/96  
 COMPLETED BY: DAVID T. JONES  
 TELEPHONE: (412) 393-4962

## OPERATING STATUS

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

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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	YEAR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD:	745.0	7320.0	78519.0
12. NO. OF HRS. REACTOR WAS CRITICAL:	0.0	5827.8	67309.6
13. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
14. HOURS GENERATOR WAS ON LINE:	0.0	5804.9	66899.5
15. UNIT RESERVE SHUTDOWN HOURS:	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GEN. (MWH):	0.0	14669115.0	166493118.0
17. GROSS ELECT. ENERGY GEN. (MWH):	0.0	4830599.0	54263928.0
18. NET ELECTRICAL ENERGY GEN. (MWH):	-7459.0	4569072.0	51288595.0
19. UNIT SERVICE FACTOR: (PERCENT)	0.0	79.3	85.2
20. UNIT AVAILABILITY FACTOR: (PERCENT)	0.0	79.3	85.2
21. UNIT CAPACITY FACTOR (MDC):PCT	0.0	76.1	79.3
22. UNIT CAPACITY FACTOR (DER):PCT	0.0	74.7	78.1
23. UNIT FORCED OUTAGE RATE: (PERCENT)	100.0	7.0	3.1

24. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, AND DURATION OF EACH):  
The Unit was shutdown for its sixth refueling outage on 08/30/96. The 45 day outage has been extended to repair the A & B Residual Heat Removal Pumps.

25. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 11/26/96

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 ( $\geq 20\%$ )

Docket No. 50-412

Unit Name BVPS Unit #2

Date November 1, 1996

Completed By David T. Jones

Telephone (412) 393-4962

REPORT MONTH October 1996

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
9	961001	S	331.4	C	4	N/A	RC	FUELXX	The Unit remained shutdown for its sixth refueling outage.
10	961014	F	163.6	A/C	9	N/A	ZZ	RELAYX	The Unit's sixth refueling outage was extended to continue replacing several J-series relays in various system component's motor control centers (MCCs). Relay replacement was being done because they were exhibiting signs of accelerated thermal aging from continuous energization which could cause associated loads to become inoperable.
11	961021	F	250.0	A/C	9	N/A	CF	PUMPXX	The Unit's sixth refueling outage was extended to repair leaking seals on both the "A" and "B" Residual Heat Removal Pumps.

<sup>1</sup>  
F-Forced  
S-Scheduled

<sup>2</sup>  
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)

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

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

<sup>5</sup>  
Exhibit H-Same Source