

Nuclear Group P.O. Box 4 Shippingport, PA 15077-0004 Telephone (412) 393-6000

May 7, 1997

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, DC 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 April, 1997.

Respectfully,

R. L. LeGrand

Division Vice President,

Ronald J. Le Grand

Nuclear Operations /

Plant Manager

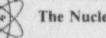
DTJ/slp

Enclosures

NRC Regional Office

King of Prussia, PA

9705150247 970430 PDR ADOCK 05000334



The Nuclear Professionals



704

NARRATIVE SUMMARY OF

MONTHLY OPERATING EXPERIENCE

UNIT 1

APRIL 1997

The Unit began the report period shutdown in Mode 5 to continue with repair of the

through April 4	"A" Reactor Coolant Loop Cold Leg Isolation Valve.
April 5 through April 10	Upon satisfactory completion of repairs to the "A" Reactor Coolant Loop Cold Leg Isolation Valve, reactor coolant system heatup began while several issues were resolved prior to entering Mode 4.
April 11	Mode 4 was entered at 0313 hours as plant heatup continued and as preparations were made for entering Mode 3.
April 12	Mode 3 was entered at 1421 hours as plant heatup continued and as preparations were made for entering Mode 2.
April 13	Mode 2 was entered at 2214 hours and the Reactor was taken critical at 2313 hours.
April 14	Mode 1 was entered at 0328 hours. The Unit was synchronized to the electrical grid at 0711 hours and began power escalation towards 100% output.
April 15	The Unit achieved a nominal value of 100% output at 2115 hours.
April 16 through April 30	The Unit operated at a nominal value of 100% output for the remainder of the report period.

In addition to the above, the following events which also occurred during the report period are being reported as required by Technical Specifications.

Apr	il	1	
thro	u	gh	
Apr	il	3()

April 1

The Automatic Rod Position Deviation Monitor, although still functional, was not considered operable per Technical Specifications. The limiting condition for operation as specified in the Technical Specifications was met because the deviations between the indicated rod positions were verified to be within their 12 step limits by obtaining analog/digital rod positions at least once every 4 hours.

NARRATIVE SUMMARY OF

MONTHLY OPERATING EXPERIENCE

UNIT 1

APRIL 1997

(Continued)

April 14

With the Unit in Mode 2 and the Reactor critical, the Analog Rod Position Indication (ARPI) for Control Rod G-3 was declared inoperable at 0001 hours due to reading greater than the Technical Specification limit of 12 steps. In addition, the primary detector voltage readings also verified the control rod to be low outside of the 12 step limit. The limiting condition for operation as specified in the Technical Specifications was met because the trippability of the control rod was verified, and the high neutron flux trip setpoint was reduced to ≤85% of rated thermal power. Following recalibration of the ARPI for Control Rod G-3, a channel check was performed satisfactorily and Control Rod G-3 was declared operable at 0226 hours.

April 15

At 1645 hours, the Analog Rod Position Indication (ARPI) for Control Rod H-2 was declared inoperable due to reading greater than the Technical Specification limit of 12 steps. In addition, the primary detector voltage readings also verified the control rod to be high outside of the 12 step limit. The limiting condition for operation as specified in the Technical Specifications was met because the control rod position was verified to be within the 12 step limit by using the incore movable detectors.

April 16

Following recalibration of the ARPI for Control Rod H-2, a channel check was performed satisfactorily and Control Rod H-2 was declared operable at 0600 hours.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334

UNIT BVPS Unit 1

DATE May 2, 1997

COMPLETED BY David T. Jones

TELEPHONE (412) 393-4962

MONTH	April 1997		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWc-Net)
1	0	17	823
2	0	18	826
3	0	19	825
4		20	826
5	O AND THE RESIDENCE OF THE PROPERTY OF THE PRO	21	826
6	0	22	825
7	0	23	826
8	0	24	827
9	0	25	827
10	0	26	824
11	0	27	824
12	0	28	824
13	0	29	824
14	209	30	819
15	670	31	****
16	821		

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: 05/02/97

COMPLETED BY: DAVID T. JONES TELEPHONE: (412) 393-4962

OFFRATING STATUS

.....

		* * * * * * * *	* * * * * *
1. UNIT NAME: BEAVER VALLEY POWER S	TATION, UNIT 1	*Notes	
2. REPORTING PERIOD: APRIL 1997		*	*
3. LICENSED THERMAL POWER (MWt) .	2652		*
3. LICENSED THERMAL POWER (MWt): 4. NAMEPLATE RATING (Gross MWe):	923		
5. DESIGN ELECTRICAL RATING (Net MW	(a) · 835		
6. MAX. DEPENDABLE CAPACITY (Gross	MWe) . 860		
7. MAX. DEPENDABLE CAPACITY (Net Mw			* * * * * *
8. IF CHANGES OCCUR IN CAPACITY RAT	INGS SINCE LAST	REPORT, GIVE RE	EASONS:
9. POWER LEVEL TO WHICH RESTRICTED,			
O. REASONS FOR RESTRICTIONS, IF ANY	:	N/A	
	THIS MONTH	YEAR TO DATE	CUMULATIVE
1. HOURS IN REPORTING PERIOD: 2. NO. OF HRS. REACTOR WAS CRITICAL 3. REACTOR RESERVE SHUTDOWN HOURS: 4. HOURS GENERATOR WAS ON LINE:	719.0	2879.0	184079.0
2. NO. OF HRS. REACTOR WAS CRITICAL	: 408.8	2262.9	122910.8
3. REACTOR RESERVE SHUTDOWN HOURS:	0.0	0.0	4482.8
4. HOURS GENERATOR WAS ON LINE:	400.8	2254.9	120741.5
5. UNIT RESERVE SHUTDOWN HOURS: 6. GROSS THERMAL ENERGY GEN. (MWH): 7. GROSS ELECT. ENERGY GEN. (MWH):	0.0	0.0	0.0
6. GROSS THERMAL ENERGY GEN. (MWH):	1023580.0	5879346.0	293153088.5
7. GROSS ELECT. ENERGY GEN. (MWH):	337912.0	1957555.0	94825147.0
8 NET ELECTRICAL ENERGY GEN (MWH)	374092 0	1941345 0	99702914 O
9. UNIT SERVICE FACTOR: (PERCENT)	55.7	78.3	67.3
O. UNIT AVAILABILITY FACTOR: (PERCEN	T) 55.7	78.3	67.3
1. UNIT CAPACITY FACTOR (MDC):PCT	53.9	79.0	61.8
2. UNIT CAPACITY FACTOR (DER):PCT	52.3	76.6	59.9
9. UNIT SERVICE FACTOR: (PERCENT) 0. UNIT AVAILABILITY FACTOR: (PERCEN 1. UNIT CAPACITY FACTOR (MDC): PCT 2. UNIT CAPACITY FACTOR (DER): PCT 3. UNIT FORCED OUTAGE RATE: (PERCEN	T) 44.3	21.7	15.1
4. SHUTDOWNS SCHEDULED OVER NEXT SI	X MONTHS (TYPE.)	DATE AND DURATIO	N OF EACH):
THE UNIT'S 12TH REFUELING OUTAGE IS			
45 DAYS.			
5. IF SHUT DOWN AT END OF REPORT PE	RIOD, ESTIMATED	DATE OF STARTUP	:
6. UNITS IN TEST STATUS (PRIOR TO C	OMMERCIAL OPERA	TION):	
			HIEVED
INITIAL CRITICAL		N/A	N/A
INITIAL ELECTRIC		N/A	N/A_
COMMERCIAL OPERA	TION	N/A	N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS (≥20%)

Docket No.	50-334	
Unit Name	BVPS Unit #1	
Date	May 2, 1997	
Completed By	David T. Jones	-
Telephone	(412) 393-4962	_

REPORT MONTH April 1997

No.	Date	Type1	Duration (Hours)	Reason2	Method of Shutting Down Reactor3	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective Action to Prevent Recurrence
4	970401	F	109.8	A	4	N/A	СВ	VALVEX	The Unit remained in cold shutdown to complete repair of a body-to-bonnet flange joint leak on the "A" Reactor Coolant Loop Cold Leg Isolation Valve.
5	970405	F	209.4	Н	9	N/A	ZZ	7.7.7.7.7.	The Unit continued with reactor coolant system heatup and startup activities, resolving several issues prior to entering Mode 4 and prior to synchronizing to the electrical grid.

F-Forced S-Scheduled

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)

Method:

1-Manual

2-Manual Scram

3-Automatic Scram

4-Cont'd. from Previous Month

5-Reduction

9-Other

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

Exhibit H-Same Source

NARRATIVE SUMMARY OF

MONTHLY OPERATING EXPERIENCE

UNIT 2

APRIL 1997

April 1	The Unit began the report period operating at approximately 59% output to complete repair of the mechanical seal on the "A" Main Feedwater Pump. Following completion of repairs, the Unit began to increase power towards 100% output at 0850 hours. The Unit achieved a nominal value of 100% output at 1755 hours.
April 2 through April 12	The Unit operated at a nominal value of 100% output.
April 13	At 0302 hours, the Unit began to decrease output to approximately 39% to evaluate a steam leak at the manway on the Moisture Separator Drain Receiver Tank for possible leak repair. An output of approximately 39% was achieved at 0612 hours.
April 14	The Unit remained at approximately 39% output while preparations for leak repair of the manway on the Moisture Separator Drain Receiver Tank continued.
April 15	The Unit began to increase power towards 100% output at 1145 hours. The Unit achieved a nominal value of 100% output at 2125 hours.
April 16 through April 30	The Unit operated at a nominal value of 100% output.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-412
UNIT BVPS Unit 2
DATE May 2, 1997
COMPLETED BY David T. Jones
TELEPHONE (412) 393-4962

MONTH	April 1997		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	657	17	836
2	833	18	836
3	830	19	836
4	827	20	835
5	826	21	835
6	822	22	836
7	837	23	836
8	838	24	836
9	838	25	835
10	836	26	836
11	833	27	833
12	829	28	834
13	381	29	835
14	271	30	829
15	461	31	***
16	832		

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: 05/02/97
COMPLETED BY: DAVID T. JONES

TELEPHONE: (412) 393-4962

OPERATING STATUS

			* * * * * * *	* * * * * *
1.	UNIT NAME: BEAVER VALLEY POWER STAT	ION, UNIT 2	*Notes	*
2.	REPORTING PERIOD: APRIL 1997		*	*
3.	LICENSED THERMAL POWER (MWE):	2652	*	*
4.	NAMEPLATE RATING (Gross MWe):	923	*	*
5.	DESIGN ELECTRICAL RATING (Net MWe):	836	*	*
6.	LICENSED THERMAL POWER (MWt): NAMEPLATE RATING (Gross MWe): DESIGN ELECTRICAL RATING (Net MWe): MAX. DEPENDABLE CAPACITY (Gross MWe MAX. DEPENDABLE CAPACITY (Net MWe):): 870	*	*
1.	MAX. DEPENDABLE CAPACITY (Net Mwe):	820	* * * * * * * *	* * * * * *
8.	IF CHANGES OCCUR IN CAPACITY RATING	S SINCE LAST	REPORT, GIVE RE	ASONS:
9.	POWER LEVEL TO WHICH RESTRICTED, IF REASONS FOR RESTRICTIONS, IF ANY:	ANY (Net MW	e): None N/A	
		THIS MONTH	YEAR TO DATE	CUMULATIVE
1.1	HOURS IN REPORTING PERIOD: NO. OF HRS. REACTOR WAS CRITICAL: REACTOR RESERVE SHUTDOWN HOURS: HOURS GENERATOR WAS ON LINE: UNIT RESERVE SHUTDOWN HOURS: GROSS THERMAL ENERGY GEN. (MWH): GROSS ELECT. ENERGY GEN. (MWH):	710 0	2070 0	02062 0
12	NO OF MES PRACTOR WAS CRITICAL.	719.0	28/9.0	82862.0
13	PRACTOR DECEDUE CHITTOONS HOUSE.	719.0	2401.7	70122.7
14	HOURS GENERATOR WAS ON I THE.	710.0	2275 3	60640.0
ing.	INTT DECEDUE CUITTOWN UNITE.	719.0	23/5.3	09640.0
16	GROSS THERMAL ENERGY CEN (MUH).	1700741 0	5000776 0	172101610 0
17	GROSS ELECT. ENERGY GEN. (MWH): NET ELECTRICAL ENERGY GEN. (MWH):	502250 0	1006041 0	1/3192915.0
B	NET ELECTRICAL ENERGY GEN (MWW).	551679 0	1974129 0	50403.04.0
9	INIT SERVICE PACE D. (DEDCENT)	100.0	18/4129.0	04.0
20	INTER AUATIABTITES PACTOR (SPECENT)	100.0	02.5	04.0
21	INTER CAPACITY FACTOR (MDC) . DOT	95.3	70 4	70.0
22	INIT CAPACITY PACTOR (PDC) : PCT	93.3	77.4	77.4
23.	UNIT SERVICE FACTOR: (PERCENT) UNIT AVAILABILITY FACTOR: (PERCENT) UNIT CAPACITY FACTOR (MDC): PCT UNIT CAPACITY FACTOR (DER): PCT UNIT FORCED OUTAGE RATE: (PERCENT)	0.0	17.5	4.9
	SHUTDOWNS SCHEDULED OVER NEXT SIX M			
5.	IF SHUT DOWN AT END OF REPORT PERIO	D, ESTIMATED	DATE OF STARTUP	:
6.	UNITS IN TEST STATUS (PRIOR TO COMM	ERCIAL OPERAT	CION):	
			FORFCACE	משעשה
	INITIAL CRITICALITY INITIAL ELECTRICITY COMMERCIAL OPERATION		N/A	NA
	INITIAL PLECTRICITY		N/A	N/A
	COMMERCIAL OPERATION	N	NI / N	N/A
	COMMERCIAL OPERATION	N. C.	N/A	NA

UNIT SHUTDOWNS AND POWER REDUCTIONS (220%)

Docket No. 50-412
Unit Name BVPS Unit #2
Date May 2, 1997
Completed By David T. Jones
Telephone (412) 393-4962

REPORT MONTH April 1997

No.	Date	Type1	Duration (Hours)	Reason2	Method of Shutting Down Reactor3	Licensee Event Report #	System Code4	Component Code5	Cause & Corrective Action to Prevent Recurrence
10	970401	F	0	В	4	N/A	СН	PUMPXX	While operating at approximately 59% output, the Unit completed repair of the mechanical seal on the "A" Mair Feedwater Pump.
11	970413	F		В	5	N/A	НН	НТЕХСН	The Unit reduced output to approximately 39% to evaluate and leal repair a steam leak on the manway of the Moisture Separator Drain Receiver Tank.

F-Forced S-Scheduled

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

.

Exhibit F-Instructions for Preparation of Data Entry Shoets for Licensee Event Report (LER) File

(NUREG0161).

5

Exhibit H-Same Source