NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - MAY, 1984

May 1 through May 23

The station was in operational mode 1 with reactor power a nominal 100%. The reactor coolant system was at normal operating temperature and pressure.

May 24

With the station operating at 100% reactor power, a generator/turbine/reactor trip occurred at 0239 hours. The No. 1 diesel generator autostarted due to an apparent undervoltage on 4160V bus 1AE and 480V bus 18N. The plant was stabilized in mode 3 using appropriate emergency procedures.

The cause of the trip was traced to a failed transistor on the time limiter module of the WTA voltage regulator. The transistor was replaced and the station was taken critical at 1550 hours. The main unit generator was synchronized to the grid at 1830 hours. Escalation of reactor power was then begun. At 1854 hours, while attempting to switch steam generator feedwater control from the bypass to main feedwater regulating valves, the 'C' main feedwater regulating valve would not respond to a demand signal. The problem was found to be a broken valve stem. Feedwater control was placed back in bypass and reactor power was being maintained at approximately 30%.

At 2214 hours, the generator experienced a 120MW load rejection due to problems with the electro-hydraulic control (EHC) system. The EHC system was placed in manual control.

May 25

The 1B S/G feedwater control was switched to bypass to support the clearance on FCV-FW-488.

The EHC problems were traced to a faulty impulse pressure transmitter which was sending erratic input signals to the EHC when the system was in the "IMP IN" position. The onsite technical representative gave the okay to increase power with the EHC in the "IMP OUT" position. Escalation of reactor power was begun at 1115 hours. A new impulse pressure transmitter was installed and found to be reading satisfactorily. Reactor power was increased to 100% at 2035 hours.

May 26

At 1440 hours, the station experienced a 20MW load rejection. A second 20MW load rejection occurred at 1500 hours. The EHC system was placed in "IMP OUT." The EHC impulse channel was found to be drifting high. A strip chart recorder was installed to record the input signals sent from the pressure transmitter to the EHC system.

May 27 through May 28

The station was in operational mode 1 with reactor power a nominal 100%. The reactor coolant system was at normal operating temperature and pressure.

May 29

The station was operating at a nominal 100% reactor power. At 1040 hours, the EHC was restored to "IMP IN" control. The problem in the impulse pressure transmitter was found to be a loose electrical connection at the EHC cabinet.

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1/1

May 30 through May 31	The station was in operational mode 1 with reactor power a nominal 100%. The reactor coolant system was at normal operating temperature and pressure.

OPERATING DATA REPORT

DOCKET NO. 50-334
DATE June 4, 1984
COMPLETED BY J. L. Holtz
TELEPHONE 412-643-1369

OPERATING STATUS

1. Unit Name: Beaver Valley Power Station, Unit #1
2. Reporting Period: May 1984
3. Licensed Thermal Power (MWt): 2660
4. Nameplate Rating (Gross MWe): 923
5. Design Electrical Rating (Net MWe): 835
6. Maximum Dependable Capacity (Gross MWe): 860
7. Maximum Dependable Capacity (Net MWe): 810

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	744	3,647	70,871
12. Number Of Hours Reactor Was Critical	730.8	3,435.5	34,314.9
13. Reactor Reserve Shutdown Hours	-0-	-0-	4,482.8
14. Hours Generator On-Line	728.2	3,269.6	33,048.4
15. Unit Reserve Shutdown Hours	-0-	-0-	-0-
16. Gross Thermal Energy Generated (MWH)	1,812,753	8,254,906.2	75,844,444.7
17. Gross Electrical Energy Generated (MWH)	605,000	2,692,500	24,121,440
18. Net Electrical Energy Generated (MWH)	568,570	2,530,735	22,419,623
19. Unit Service Factor	97.9	89.7	48.9
20. Unit Availability Factor	97.9	89.7	48.9
21. Unit Capacity Factor (Using MDC Net)	94.3	85.7	42.6
22. Unit Capacity Factor (Using DER Net)	91.5	83.1	41.4
23. Unit Forced Outage Rate	2.1	3.5	28.9

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Scheduled shutdown in October for 4th refueling.

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	N/A	N/A
INITIAL ELECTRICITY	N/A	N/A
COMMERCIAL OPERATION	N/A	N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-334
UNIT BVPS Unit #1
DATE June 4, 1981
COMPLETED BY J. L. Holtz
TELEPHONE (412) 643-13

MONTH MAY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	825	17	825
2	784	18	784
3	784	19	783
4	825	20	826
5	784	21	743
6	825	22	783
7	784	23	826
8	783	24	87
9	826	25	455
10	784	26	784
11	783	27	784
12	784	28	825
13	826	29	784
14	783	30	783
15	825	31	826
16	784		

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.

(9/77)

MAJOR MAINTENANCE - MAY, 1984

1. Repaired broken stem on main feedwater regulating valve, FCV-FW-498.

2. Replaced transistor Q2 on the time limiter module of WTA voltage regulator.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH MAY

DOCKET NO. 50-334
UNIT NAME BVPS Unit #1
DATE June 4, 1984
COMPLETED BY J. L. Holtz
TELEPHONE (412) 643-1369

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of Shutting Down Reactor[3]	Licensee Event Report #	System Code[4]	Component Codes[5]	Cause & Corrective Action to Prevent Recurrence
1	5/24/84	F	15.8	A	3	84-004	HA	XXXXX	At 0239 hours on the 24th, a generator/turbine/reactor trip occurred. The cause of the trip was a failed transistor on the time limiter module of the WTA voltage regulator. The transistor was replaced and the reactor was taken critical at 1550 hours on the same day. The main unit generator was synchronized to the grid at 1830 hours.

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-Continued From Previous Month
5-Reduction
9-Other

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)

5
Exhibit I - Same Source

0/77)

2

Duquesne Light

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

Telephone (412) 393-6000

June 4, 1984

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

United States Nuclear Regulatory Commission
Director, Office of Management Information & Program Control
Washington, D.C. 20555

Gentlemen:

In accordance with Appendix A, Technical Specifications, the Monthly Operating Report is submitted for the month of May, 1984.

Very truly yours,

J. J. Carey/RFG

J. J. Carey
Vice President
Nuclear Group

Enclosures

cc: NRC Regional Office, King of Prussia, PA

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