DUQUESNE LIGHT COMPANY Beaver Valley Power Station

NARRATIVE SUMMARY OF MONTHLY OPERATING EXPERIENCE - FEBRUARY 1983

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

February 6 At 0000 hours, a load reduction was started in preparation for a containment entry. This was completed at 0121 hours with reactor power at 48 percent. At 0200 hours, a crew of electricians entered containment to investigate the cause of high stator temperatures on the "C" reactor coolant pump [RC-P-1C]. At 0300 the electricians removed the inspection plates on the pump, and stator temperatures began to decrease. The crew also added oil to all three reactor coolant pumps' lube oil reservoirs. All three were about 1" low. A reactor power increase was begun at 0615 hours at system's request. This was completed at 1100 hours with reactor power a nominal 100 percent.

February 7The station was in operational mode 1 with reactor power at
a nominal 100 percent and the reactor coolant system at normal
February 11February 11operating temperature and pressure.

February 12 At 1004 hours the plant experienced a reactor trip/safety injection actuation due to low steamline pressure. A sweated fitting on the air supply line to the trip valve on the "B" main steam line [TV-MS-101B] had separated, venting the air and allowing the valve to close. The subsequent steam flow increase in the "A" steam line momentarily dropped steam pressure sufficiently to cause a trip. An Unusual Event was declared at 1028 hours due to the Emergency Safeguards Features actuation. The reactor operators followed applicable procedures to stabilize the plant and then proceeded to recover from the trip and the safety injection. The Unusual Event was terminated at 1106 hours. The air line to the "B" main steam trip valve [TV-MS-101B] was repaired and a stroke test was performed at 2200 hours. The valve failed to close and an investigation found that one of the actuator cylinder pistons was binding and would not stroke fully.

February 13 The station was in operational mode 3, Hot Standby. At 0005 hours, the technical specification action statement dealing with an inoperable main steam isolation valve was met by disconnecting both of the valve actuator cylinders from the valve shaft in order to close the valve. At 0300 hours, a containment entry was made to check the "B" loop cubicle for leaks; none were found. Disassembly of the "B" main steam trip valve actuator showed that the problem was due to a scored cylinder which in turn was attributed to a slightly deformed piston. Repairs to the valve were completed at 1900 hours.

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- February 14 Reactor startup was commenced at 0050 hours and the reactor was taken critical at Oll2 hours. The reactor tripped at Ol35 hours on lo-lo steam generator level in the "C" steam generator. The feedwater bypass valve [FCV-FW-499] had failed to respond to manual control. An investigation revealed a leaking "O" ring on the valve actuator that allowed cylinder equalization. A stroke test showed that the valve would only open about 10 percent of the way. The actuator was repaired and the limit switches were adjusted. At 1020 hours, the valve was stroke tested satisfactorily and reactor startup was commenced at 1025 hours. The reactor went critical at 1049 hours and the main unit generator was synchronized at 1452 hours. Reactor power was steadily increased until 1600 hours, at which time it was held at 50 percent in order to test run the "A" main feedwater pump [FW-P-1A]. The pump was run satisfactorily and a reactor power increase was begun at 1658 hours. Reactor power reached a nominal 100 percent at 2000 hours.
- February 15 Reactor power was reduced by 80 MW at 0027 hours co allow for isolation of the "B" first point heater [FW-E-1B], which had developed a tube leak. The isolation valves for the point heater were completely closed at 0032 hours but were leaking by. Reactor power was increased to a nominal 100 percent at 1335 hours. Isolation valves for "B" first point heater were verified as closed and holding flow at 2200 hours.
- February 16Station was in operational mode 1 with reactor power at a nominal
100 percent and the reactor coolant system at normal operatingFebruary 25temperature and pressure.
- February 26 Station in operational mode 1 with reactor power at a nominal 100 percent. Both trains of the reactor trip breaker under voltage trip function were tested as required on NRC IE Bulletin 83-01. Both trains tested satisfactorily.
- February 27The station was in operational mode 1 with reactor power at a
nominal 100 percent and the reactor coolant system at normalFebruary 28operating temperature and pressure.

DUQUESNE LIGHT COMPANY Beaver Valley Power Station

MAJOR SAFETY-RELATED MAINTENANCE - FEBRUARY 1983

- A containment entry was made on February 6 to inspect reactor coolant pump RC-P-IC. The inspection plates were removed in order to allow the stator to cool. Also, oil was added to all three reactor coolant pumps' lube oil reservoirs. All had been about 1" low.
- 2. The air supply line to the main steam trip valve TV-MS-101B actuator had separated at a sweated fitting and was repaired. Subsequent attempts to stroke the valve were unsuccessful. An investigation found that the actuator piston was binding due to debris and a loose pivot arm. Repeated operation of the valve over a period of time had allowed the piston to strike the cylinder wall, "mushrooming" its leading edge. The inside cylinder was honed and the piston head was machined. The actuator was tested satisfactorily.
- 3. One of the steam generator feedwater bypass valves [FCV-FW-499] had failed to respond to manual control due to a leaking "O" ring on the valve actuator. The "O" ring was replaced and the limit switches were adjusted.
- 4. Auxiliary feedwater pump, FW-P-2, was repacked.
- Verified operability of both "A" & "B" reactor trip breakers to comply with I.E. Bulletin No. 83-01.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-334				
UNIT	BVPS Unic #1				
DATE	3-3-83				
COMPLETED BY	J. L. Holtz				
TELEPHONE	412-643-1369				

MONTH	February		
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERA
1	813	17	-
2	809	18	
3	817	19	
4	817	20	
5	821	21	
6	676	22	
7	813	23	
8	813	24	
9	821	25	
10	825	25	
11	821	27	
12	332	28	
13	0	29	
14	30	30	
15	792	31	
16			

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.

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OPERATING DATA REPORT

Notes

DOCKET NO.	50-334
DATE	3-3-83
COMPLETED BY	J. L. Holtz
TELEPHONE.	412-643-1369

OPERATING STATUS

1 Unit Name. Beaver Valley Power Station. Unit #	1	Unit Name	Beaver	Valley	Power	Station.	Unit	#1	
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- February 2. Reporting Period:
- 3. Licensed Thermal Power (MWt): 2660
- 923 4. Nameplate Rating (Gross MWe): 852
- 5. Design Electrical Rating (Net MWe): 860
- 6. Maximum Dependable Capacity (Gross MWe): 810

7. Maximum Dependable Capacity (Net MWe):

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 N/A 10. Reasons For Restrictions, If Any: _

This Month Yr.-to-Date Cumulative 11. Hours In Reporting Period 672 1,416 59,880 623.6 12. Number Of Hours Reactor Was Critical 1,334.6 26,152.1 13. Reactor Reserve Shutdown Hours 0 0 4,482.8 14. Hours Generator On-Line 619.2 1,327.6 25,127.8 15. Unit Reserve Shutdown Hours 0 0 0 16. Gross Thermal Energy Generated (MWH) 598,707.8 3,333,046.8 55,843,228 17. Gross Electrical Energy Generated (MWH) 522,500 1,093,600 17,606,240 498,117 1,042,611 18. Net Electrical Energy Generated (MWH) 16,254,728 19. Unit Service Factor 92.1 93.8 43.9 20. Unit Availability Factor 92.1 93.8 43.9 21. Unit Capacity Factor (Using MDC Net) 91.5 90.9 36.9 87.0 22. Unit Capacity Factor (Using DER Net) 86.4 35.1 7.9 23. Unit Forced Outage Rate 6.25 35.0 24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Shutdown for third refueling scheduled to begin June 11, 1983. Projected duration is 14 weeks.

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-334 UNIT NAME BVPS Unit #1 DATE _3-3-83 COMPLETED BY J. L. Holtz TELEPHONE 412-643-1369

REPORT MONTH _FEERUARY

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor3	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
3	830212	F	52.8	A	3	83-005/99X	CD	VALVOP	At 1004 hours, the plant experienced a safety inspection/reactor trip actu- ation due to low steamline pressure. A sweated fitting on the air supply line to the trip valve on the "B" main steam line [TV-MS-101B] had separated, allowing [TV-MS-101B] to close. The subsequent rapid increase in steam flow in the "A" and "C" steamlines momentarily dropped steam pressure in the "A" steamline sufficiently to cause a safety injection/reactor trip on a low steamline pressure signal. An Unusual Event was declared at 1028 hours due to ESF equipment actuation. The Unusual Event was terminated at 1106 hours.
1 F: Fo S: Sch	rced reduled	2 Rease A-Eq B-Mal C-Ref D-Ref E-Op F-Adi G-Op H-Orl	on: uipment Fai intenance of ueling gulatory Re- crator Train ministrative erational En- ter (Explain	ilure (Ex r Test striction ing & Li ror (Exp)	oplain) cense Exam plain)	3 Neth 1-Mar 2-Mar 3-Au 4-Cor ination 5-Re 9-Ot	od: nual nual Scr tomatic ntinued duction her	am Scram From Previo	4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161) 5 Exhibit 1 - Same' Source

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKETNO	50-334					
UNIT NAME	BVPS Unit #1					
DATE	3-3-83					
COMPLETED BY	J. L. Holtz					
TELEPHONE	412-643-1369					

REPORT MONTH _____FEBRUARY

	1	1								
N 17,	Date	Type ¹	Duration (Hours)	- mise's R	Method of Shutting Down Reactor3	Licensee Event Report #	System Code ⁴	Component Code ⁵		Cause & Corrective Action to Prevent Recurrence
3	830212	F	52.8	A	3	83-005/99X	CD	VALVOP	Following line at 22 valve was torily. T a piston t actuator of on the 13t cation act an inopera valve was of the val the valve the valve the valve. were compl Reactor st 0050 hours reactor we The reactor	the repair of the air 200 hours on the 12th, the stroke tested unsatisfac- The problem was found to be that was binding in the sylinder. At 0005 hours th, the technical specifi- tion statement dealing with the main steam isolation met by disconnecting both twe actuator cylinders from shaft in order to close Valve actuator repairs teted at 1900 hours. The second statement of the term of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of the second statement of t
F Fa S Sch	iced ieduled	Reaso A-Equ B-Mai C-Ref D-Reg E-Opo F-Adi G-Opo H-Oti	intenance o ueling gulatory Re crator Train ministrative erational Er ner (Explain	ilure (E) i Test striction ing & L tor (Exp	xplain) 1 icense Exan plain)	3 Neth 1-Ma 2-Ma 3-Au 4-Cc 9-Ot	nod: inual stomatic ontinued eduction ther	ram Scram From Previous	4 Month	Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161) Exhibit 1 - Same'Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

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DOCKET NO. 50-334 UNIT NAME BVPS Unit #1 DATE 3-3-83 COMPLETED BY J. L. Holtz TELEPHONE 412-643-1369

REPORT MONTH FEBRUARY

No.	Date	Typel	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
3	830212	F	52.8	A	3	83-005/99X	CD	VALVOP	lo-lo steam generator level in the "C" steam generator. The feedwater bypass valve [FCV-FW-499] had failed to respond to manual control due to a leaking "O" ring on the valve actuator cylinder. Following repair and testing of the valve, reactor startup was commenced at 1025 hours. The reactor was taken critical at 1049 hours and the main unit gener- ator was synchronized at 1452 hours.
F: For S: Sch	ced cduled	2 Reaso A-Equ B-Mai C-Refi D-Reg E-Ope E-Adu G-Ope H-Oth	n: Ipment Fai Itenance of vellng ulatory Res rator Traini ninistrative rational Err or (Explain	lure (Ex Test artiction ing & Lie tor (Exp	plain) cense Exam lain)	3 Netho 1-Mar 2-Mar 3-Aut 4-Cor ination 5-Red 9-Oth	od: nual nual Scr tomatic ntinued luction her	am Scram From Previous	4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161) 5 Exhibit 1 - Same'Source