



A Centerior Energy Company

EDISON PLAZA
300 MADISON AVENUE
TOLEDO, OHIO 43652-0001

October 14, 1994

KB-94-1723

Docket No. 50-346
License No. NPF-3

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

Monthly Operating Report, September, 1994
Davis-Besse Nuclear Power Station Unit 1

Enclosed are ten copies of the Monthly Operating Report for Davis-Besse Nuclear Power Station Unit No. 1 for the month of September, 1994.

If you have any questions, please contact G. M. Wolf at (419) 321-8114.

Very truly yours,

A handwritten signature in cursive script that reads 'John K. Wood'.

John K. Wood
Plant Manager
Davis-Besse Nuclear Power Station

GMW/dmc

Enclosures

cc: L. L. Dondos
NRC Senior Project Manager

J. B. Martin
Region III Administrator

S. Stasek
NRC Senior Resident Inspector, Stop 4030

18000-
9410190167 940930
PDR ADDCK 05000346
R PDR

1824

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-0346

UNIT Davis-Besse Unit 1

DATE 10-3-94

COMPLETED BY Gerry Wolf

TELEPHONE 419-321-8114

MONTH SEPTEMBER 1994

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	728
2	711
3	550
4	566
5	669
6	691
7	695
8	674
9	672
10	667
11	658
12	654
13	626
14	618
15	554
16	618

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	620
18	516
19	569
20	619
21	592
22	592
23	577
24	436
25	419
26	580
27	577
28	556
29	552
30	509

OPERATING DATA REPORT

DOCKET NO 50-0346
 DATE 10-3-94
 COMPLETED BY Gerry Wolf
 TELEPHONE 419-321-8114

OPERATING STATUS

1. Unit Name: Davis-Besse Unit 1
2. Reporting Period SEPTEMBER, 1994
3. Licensed Thermal Power (MWt) 2772
4. Nameplate Rating (Gross MWe) 925
5. Design Electrical Rating (Net MWe) 906
6. Maximum Dependable Capacity (Gross MWe) 913
7. Maximum Dependable Capacity (Net MWe) 868

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):

10. Reasons For Restrictions, If Any (Net MWe):

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	720.00	6,551.00	141,744.00
12. Number Of Hours Reactor Was Critical	720.00	6,551.00	38,791.45
13. Reactor Reserve Shutdown Hours	0.00	0.00	5,532.00
14. Hours Generator On-Line	720.00	6,551.00	86,574.73
15. Unit Reserve Shutdown Hours	0.00	0.00	1,732.50
16. Gross Thermal Energy Generated (MWH)	1,404,406	17,425,014	223,196,783
17. Gross Electrical Energy Generated (MWH)	462,443	5,759,822	72,099,843
18. Net Electrical Energy Generated (MWH)	433,566	5,469,441	67,995,810
19. Unit Service Factor	100.00	100.00	61.08
20. Unit Availability Factor	100.00	100.00	62.30
21. Unit Capacity Factor (Using MDC Net)	69.38	96.19	55.27
22. Unit Capacity Factor (Using DER Net)	66.47	92.15	52.95
23. Unit Forced Outage Rate	0.00	0.00	20.04

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Scheduled maintenance and refueling outage - October 1, 1994.

Planned duration - 46 days.

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
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO.: 50-346
 UNIT NAME: Davis-Besse #1
 DATE: October 5, 1994
 Completed by: G. M. Wolf
 Telephone: (419)321-8114

Report Month September 1994

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
4	94-09-02	F	0	B	5	N/A	N/A	N/A	Unscheduled power reduction for repair of steam leak at MFP 1 drain line.
5	94-09-14	S	0	B	5	N/A	N/A	N/A	Scheduled power reduction to remove Circulating Water Loop 1 from service.
6	94-09-17	S	0	B	5	N/A	N/A	N/A	Scheduled power reduction to remove Circulating Water Loop 1 from service.
7	94-09-24	S	0	B	5	N/A	N/A	N/A	Scheduled power reduction to remove Circulating Water Loop 1 from service.
8	94-09-30	S	0	C	5	N/A	N/A	N/A	Plant shutdown initiated to start maintenance and 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 Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

³ Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from
Previous Month
5-Load Reduction
9-Other (Explain)

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

⁵ Exhibit I - Same Source
*Report challenges to Power Operated Relief Valves (PORVs and Pressurizer Code Safety Valves (PCSVs))

OPERATIONAL SUMMARY

(All power levels stated are approximate. All power changes were at three percent per hour unless otherwise stated.)

Reactor power was maintained at 85 percent full power until 1025 hours on September 1, 1994, when a manual power reduction was initiated in accordance with the cycle coastdown schedule. The power reduction to 82 percent was completed at 1218 hours.

On September 2 at 2100 hours, an unplanned power reduction was initiated to repair a leak in the drain piping for Main Feed Pump (MFP) 1. Power was manually reduced to 60 percent by 0441 hours on September 3, and MFP 1 was removed from service for repairs. At 1023 hours, reactor power was gradually increased to 65 percent full power, which was achieved at 1435 hours. Sixty-five percent full power is the maximum power level when only one MFP is operating. When MFP 1 repairs were complete at 1930 hours on September 4, a gradual power increase was initiated. This power increase was stopped at 75 percent power at 2356 hours at the load dispatcher's request. On September 5 at 1157 hours, reactor power was gradually increased to 80 percent full power, which was achieved at 1425 hours.

Power continued to be manually reduced at the approximate rate of three percent every three days in accordance with the coastdown schedule:

<u>Date</u>	<u>Time</u>	<u>Power History</u>
9/08/94	0220 0305	Commenced power reduction from 80% Completed power reduction at 78%
9/10/94	1328 1500	Commenced power reduction from 78% Completed power reduction at 76%
9/13/94	0517 0623	Commenced power reduction from 76% Completed power reduction at 73%

On September 14 at 2200 hours, a planned power reduction was initiated to remove Circulating Water Loop 1 from service for maintenance. Power was manually reduced to 65 percent by 0110 hours on September 15, and Circulating Water Pump 1 was removed from service. Circulating Water Pump 1 was the only operating pump in Circulating Water Loop 1 because Circulating Water Pump 2 motor was previously taken out for maintenance. Because of atmospheric conditions, condenser pressure rose above expected values, and at 0115 hours, power was manually reduced to restore normal condenser pressure. By 0135 hours power had been reduced to 60 percent, and by 0202 hours power had been reduced to 55 percent, but condenser pressure remained above normal. At 0245 hours, Circulating Water Pump 1 was restarted to restore normal condenser pressure. At 0300 hours, a gradual power increase was initiated. At 1230 hours, the power increase was completed at 73 percent full power.

On September 17 at 2300 hours, another planned power reduction was initiated to remove Circulating Water Loop 1 from service for maintenance. Power was manually reduced to 60 percent by 0348 hours on September 18. Because of weather conditions, it did not seem favorable to remove Circulating Water Loop 1 from service at this time for maintenance. Therefore at 1038 hours on September 19, a gradual power increase was initiated. At 1530 hours, the power increase was completed at 73 percent full power.

Power continued to be manually reduced at the approximate rate of three percent every three days in accordance with the coastdown schedule:

<u>Date</u>	<u>Time</u>	<u>Power History</u>
9/20/94	1757 1841	Commenced power reduction from 73 % Completed power reduction at 70 %
9/22/94	1850 1956	Commenced power reduction from 70 % Completed power reduction at 67 %

On September 24 at 0100 hours, another planned power reduction was initiated to remove Circulating Water Loop 1 from service for maintenance. Power was manually reduced to 55 percent by 0500 hours, and Circulating Water Pump 1 was removed from service. Because of atmospheric conditions, condenser pressure rose above expected values, and at 2250 hours, power was manually reduced to restore normal condenser pressure. By 0000 on September 25, power had been reduced to 46 percent. At the Load Dispatcher's request (due to storms in the area), Circulating Water Pump 1 was restarted at 1149 hours and a gradual power increase initiated. At 2105 hours, the power increase was completed at 67 percent full power.

Power continued to be manually reduced in accordance with the coastdown schedule:

<u>Date</u>	<u>Time</u>	<u>Power History</u>
9/28/94	0720 0825	Commenced power reduction from 67 % Completed power reduction at 64 %
9/29/94	1400 1503	Commenced power increase from 64 % Completed power increase at 65 %
9/29/94	0746 0810	Commenced power increase from 65 % Completed power increase at 66 %

On September 30, at 1800 hours, a plant shutdown was initiated to start the Ninth Refueling Outage. Power was reduced at a rate of eight percent per hour, and the Main Turbine was tripped on October 1 at 0100 hours.