

APPENDIX B  
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325  
UNIT BRUNSWICK UNIT 1  
DATE 07/02/79  
COMPLETED BY EULIS WILLIS  
TELEPHONE 919-457-6701

JUNE 79

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	0.	17	785.
2	0.	18	787.
3	0.	19	785.
4	0.	20	789.
5	0.	21	789.
6	0.	22	791.
7	0.	23	784.
8	0.	24	786.
9	0.	25	783.
10	81.	26	781.
11	572.	27	722.
12	683.	28	510.
13	765.	29	702.
14	671.	30	749.
15	785.		
16	784.		

# OPERATING DATA REPORT

DOCKET NO. 050-0325  
 DATE 07/02/79  
 COMPLETED BY EULIS WILLIS  
 TELEPHONE 919-457-9521

## OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	I	NOTES	I
2. REPORTING PERIOD: JUNE 79	I		I
3. LICENSED THERMAL POWER (MWT): 2436	I		I
4. NAMEPLATE RATING (GROSS MWE): 867.0	I		I
5. DESIGN ELECTRICAL RATING (NET MWE): 821.0	I		I
6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0	I		I
7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0	I		I

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): NONE  
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	720.0	4343.0	20040.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	505.6	1731.4	14042.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	488.9	1591.3	13141.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	113362.9	3433325.3	27380516.5
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	369625.0	1144048.0	9075325.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	354645.0	1093959.0	8732557.0
19. UNIT SERVICE FACTOR	67.9	36.7	65.6
20. UNIT AVAILABILITY FACTOR	67.9	36.7	65.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	62.3	31.9	55.2
22. UNIT CAPACITY FACTOR (USING DER NET)	60.0	30.7	53.1
23. UNIT FORCED OUTAGE RATE	0.0	7.0	21.9
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

Support Inspection: 790728 96 Hours

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 0 / 0 / 0  
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERICAL OPERATION

## UNIT SHUTDOWNS AND POWER REDUCTIONS

050-0325

DOCKET NO.

Brunswick #1

UNIT NAME

July 1979

DATE

COMPLETED BY Eulis A. Willis

TELEPHONE

(919) 457-9521

REPORT MONTH June 1979

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
012	790526	S	372.4	D	I	N/A	ZZ	Support	Unit was separated from the grid to make modifications on 10 seismic supports identified when UE&C (Architect-Engineer) was performing a review of the stress analysis. In addition, the NRC required CP&L to verify that the seismic stress isometrics, on which the analysis was based, actually reflected as-built conditions. These changes and inspections required that the unit be shut down.  The required inspections were made satisfactorily. An additional 31 (for a total of 41) supports were modified based on the continuing review of the stress analysis, and the unit was returned to service. Additional shifts and overtime were worked.

F: Forced

S: Scheduled

Reason:

A-Equipment Failure (Explain)

B-Maintenance of Test

C-Refueling

D-Regulatory Restriction

E-Operator Training &amp; License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

Manual

2-Manual Scram.

3-Automatic Scram.

4-Other (Explain)

Exhibit G - Instructions

for Preparation of Data

Entry Sheets for Licensee

Event Report (LER) File (NUREG-

0161)

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Exhibit I - Same Source

## APPENDIX

DOCKET NO. 050-0325

UNIT Brunswick No. 1

DATE July 1979

COMPLETED BY Eulis A. Willis

### OPERATIONS SUMMARY

Brunswick No. 1

Brunswick Unit No. 1 operated at a 62.3% capacity factor for the month of June. The following power changes and shutdowns occurred during the month:

May 26: Unit was separated from grid for the first 231 hours of the month for inspections and modifications of pipe supports.

June 13: Power reduction for valve testing and rod shuffle.

June 21: Power reduction for condenser waterbox work.

For more information on individual outages, see the Unit Shutdowns and Power Reductions Logs for the month of June.

Availability factor for the month was 67.9%.

There are 154 PWR spent fuel assemblies and 320 BWR spent fuel assemblies stored in the BSEP 1 spent fuel pool.

APPENDIX B  
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0324  
UNIT BRUNSWICK UNIT 2  
DATE 07/02/79  
COMPLETED BY EULIS WILLIS  
TELEPHONE 919-457-6701

JUNE 79

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	0.	17	515.
2	0.	18	585.
3	0.	19	636.
4	0.	20	369.
5	0.	21	407.
6	0.	22	499.
7	0.	23	627.
8	0.	24	666.
9	0.	25	647.
10	0.	26	488.
11	0.	27	629.
12	63.	28	539.
13	195.	29	525.
14	365.	30	0.
15	403.		
16	434.		

# OPERATING DATA REPORT

DOCKET NO. 050-0324  
 DATE 07/02/79  
 COMPLETED BY EULIS WILLIS  
 TELEPHONE 919-457-9521

## OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2	I	NOTES	I
2. REPORTING PERIOD: JUNE 79	I		I
3. LICENSED THERMAL POWER (MWT): 2436	I		I
4. NAMEPLATE RATING (GROSS MWE): 867.0	I		I
5. DESIGN ELECTRICAL RATING (NET MWE): 821.0	I		I
6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0	I		I
7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0	I		I
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS:			

9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): NONE  
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	720.0	4343.0	32064.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	440.1	2120.3	21408.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	17.3	1959.1	20088.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	637190.7	3588754.5	36036588.7
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	214439.0	1217895.0	12034222.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	204035.0	1163469.0	11551681.0
19. UNIT SERVICE FACTOR	56.6	45.1	62.7
20. UNIT AVAILABILITY FACTOR	56.6	45.1	62.7
21. UNIT CAPACITY FACTOR (USING MDC NET)	35.9	33.9	45.6
22. UNIT CAPACITY FACTOR (USING DER NET)	34.5	32.6	43.9
23. UNIT FORCED OUTAGE RATE	4.1	4.1	14.1
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

Support Inspection: 780831      96 Hours

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 7/ 5/79  
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST      ACHEIVED

INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June 1979

DOCKET NO. 050-0324  
 UNIT NAME Brunswick #2  
 DATE July 1979  
 COMPLETED BY Eulis A. Willis  
 TELEPHONE (919) 457-9521

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>	Exhibit & Corrective Action to Prevent Recurrence
356 289 009	790525	S	419.1	D	1	N/A	ZZ	Support	<p>Unit was separated from the grid to make modifications on 10 seismic supports identified when UE&amp;C (Architect-Engineer) was performing a review of the stress analysis. In addition, the NRC required CP&amp;L to verify that the seismic stress isometrics, on which the analysis was based, actually reflected as-built conditions. These changes and inspections required that the unit be shut down.</p> <p>The required inspections were made satisfactorily. An additional 37 (for a total of 47) supports were modified based on the continuing review of the stress analysis, and the unit was returned to service. Additional shifts and overtime were worked.</p>

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

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

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

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



## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June 1979

DOCKET NO. 050-0324  
 UNIT NAME Brunswick #2  
 DATE July 1979  
 COMPLETED BY Eulis A. Willis  
 TELEPHONE (919) 457-9521

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
010	790612	F	17.2	A	3	N/A	CD	Valvex	<p>Reactor scram because of an indicated MSIV closure. MSIV closure caused by blown fuses on FO22D. An investigation revealed a wiring error which led to the scram when an intermittent ground occurred on the DC system.</p> <p>The wiring problem was corrected and all other MSIVs were checked and found normal. A recorder has been connected to the battery ground detector to monitor for intermittent grounds. A procedure is being developed to isolate and remove battery grounds. This incident will be reviewed with all I&amp;C Technicians and Electricians, and the importance of making correct terminations will be stressed.</p>

356 296

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

<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Other (Explain)

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

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



APPENDIX

DOCKET NO. 050-0324

UNIT Brunswick No. 2

DATE July 1979

COMPLETED BY Eulis A. Willis

OPERATIONS SUMMARY

Brunswick No. 2

Brunswick Unit No. 2 operated at a 35.9% capacity factor for the month of June. The following power changes and shutdowns occurred during the month:

May 25: Unit was separated from grid for the first 270 hours of the month for inspections and modifications of pipe supports.

June 12: Reactor scram because of blown fuses on an MSIV.

June 25: Power was reduced for condenser waterbox work.

June 29: Separated from grid for pipe support inspections and modifications.

For more information on individual outages, see the Unit Shutdowns and Power Reductions Logs for the month of June. Unit availability factor--56.6%.

The unit is expected to return to service on July 5.

There are 28 PWR spent fuel assemblies and 132 BWR spent fuel assemblies in the BSEP #2 spent fuel pool.