

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 03/02/84
COMPLETED BY FRANCES HARRISON
TELEPHONE (919)457-9521

FEBRUARY 1984

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	-12	17	794
2	-11	18	769
3	-12	19	792
4	249	20	793
5	665	21	797
6	747	22	795
7	795	23	795
8	795	24	791
9	795	25	779
10	798	26	790
11	783	27	790
12	794	28	788
13	698	29	794
14	784		
15	795		
16	793		

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PDR ADOCK 0500^324
R PDR

IE24

OPERATING DATA REPORT

DOCKET NO. 050-0325
 DATE 03/02/84
 COMPLETED BY FRANCES HARRISON
 TELEPHONE (919)457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	I	NOTES	I
2. REPORTING PERIOD: FEBRUARY 84	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):
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	696.00	1440.00	60961.00
12. NUMBER OF HOURS REACTOR CRITICAL	641.13	1362.86	37760.84
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	614.27	1336.00	35424.53
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1447182.78	3172513.88	71599808.45
17. GROSS ELEC. ENERGY GEN. (KWH)	486205.00	1066181.00	23613232.00
18. NET ELEC. ENERGY GENERATED (MWH)	473376.00	1038422.00	22652262.00
19. UNIT SERVICE FACTOR	88.26	92.78	58.11
20. UNIT AVAILABILITY FACTOR	88.26	92.78	58.11
21. UNIT CAP. FACTOR (USING MDC NET)	86.09	91.28	47.04
22. UNIT CAP. FACTOR (USING DER NET)	82.84	87.84	45.26
23. UNIT FORCED OUTAGE RATE	11.74	7.22	22.62
24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
REPLACING SEALS ON 3/3 - 3/10/84 7 DAYS			
RECIRC PUMP			

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

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

APPENDIX

DOCKET NO.: 050-325
UNIT: Brunswick No. 1
DATE: March 1984
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY BRUNSWICK UNIT NO. 1

Brunswick Unit No. 1 operated at an 88.26% availability factor for the month of February with an 86.09% capacity factor. There was one off-line outage and three power reductions. Details are in Appendix D, The Unit Shutdowns and Power Reduction Log.

There are 656 BWR and 160 PWR spent fuel bundles in the Brunswick No. 1 fuel pool.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0325
 UNIT NAME Brunswick I
 DATE March 1984
 COMPLETED BY Frances Harrison
 TELEPHONE (919)457-9521

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
84-006	01-31-84	F	104.00	A	2	NA	XX	VESSEL	Unit separated from grid to find/secure of drywell floor and equipment drain leakage and repair.

1
 F: Forced
 S: Scheduled

2
 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)

3
 Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Continuations
 5-Load Reductions
 6-Other

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

5
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0325
 UNIT NAME Brunswick I
 DATE March 1984
 COMPLETED BY Frances Harrison
 TELEPHONE (919) 457-9521

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
84-009	02-13-84	F	.00	B	5	NA	CB	PUMPXX	Removed 1A Rx Feedpump from service to allow I&C to check out MGU.

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-Continuations
 5-Load Reductions
 6-Other

⁴
 Exhibit G - Instructions
 for Preparation of Data
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⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0325
 UNIT NAME Brunswick 1
 DATE March 1984
 COMPLETED BY Frances Harrison
 TELEPHONE (919)457-9521

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
84-010	02-18-84	F	.00	A	5	NA			Reduced power due to Hi D/P across Radwaste and APRM Upscale.

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-Continuations
 5-Load Reductions
 6-Other

⁴
 Exhibit G - Instructions
 for Preparation of Data
 Entry Sheets for Licensee
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 0161)

⁵
 Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0325
UNIT NAME Brunswick 1
DATE March 1984
COMPLETED BY Frances Harrison
TELEPHONE (919)457-9521

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
84-011	02-25-84	S	.00	B	5	NA	--	-----	Control Rod operability comp. 100% rod pattern.

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-Continuations
5-Load Reductions
6-Other

⁴
Exhibit G - Instructions
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Event Report (LER) File (NUREG-
0161)

⁵
Exhibit I - Same Source

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 950-0324
UNIT BRUNSWICK UNIT 2
DATE 03/02/84
COMPLETED BY FRANCES HARRISON
TELEPHONE (919)457-9521

FEBRUARY 1984

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	721	17	746
2	734	18	705
3	736	19	752
4	717	20	741
5	734	21	739
6	735	22	46
7	732	23	171
8	725	24	621
9	723	25	683
10	683	26	735
11	612	27	731
12	731	28	739
13	744	29	739
14	727		
15	729		
16	728		

OPERATING DATA REPORT

DOCKET NO. 050-0324
 DATE 03/02/84
 COMPLETED BY FRANCES HARRISON
 TELEPHONE (919)457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2		NOTES	
2. REPORTING PERIOD: FEBRUARY 84			
3. LICENSED THERMAL FOWER (MWT): 2436			
4. NAMEPLATE RATING (GROSS MWE): 867.0			
5. DESIGN ELECTRICAL RATING (NET MWE): 821.0			
6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0			
7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0			

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):
 10. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	696.00	1440.00	72985.00
12. NUMBER OF HOURS REACTOR CRITICAL	671.60	1338.40	46065.82
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	662.13	1301.06	43086.53
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1468832.00	2744288.47	81321009.49
17. GROSS ELEC. ENERGY GEN. (MWH)	487062.00	910369.00	27020067.00
18. NET ELEC. ENERGY GENERATED (MWH)	471735.00	881155.00	25908973.00
19. UNIT SERVICE FACTOR	95.13	90.35	59.03
20. UNIT AVAILABILITY FACTOR	95.13	90.35	59.03
21. UNIT CAP. FACTOR (USING MDC NET)	85.79	77.46	44.94
22. UNIT CAP. FACTOR (USING DER NET)	82.56	74.53	43.24
23. UNIT FORCED OUTAGE RATE	4.87	2.66	15.62
24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

OFF-GAS/CONDENSER RETUBING 3/10 - 10/15/84
 5500 Hours

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

APPENDIX

DOCKET NO.: 050-324
UNIT: Brunswick No. 2
DATE: March 1984
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at a 95.13% availability factor for the month of February with an 88.79% capacity factor. There was one off-line outage and six power reductions. Details are in Appendix D, The Unit Shutdowns and Power Reduction Log. The unit is operating at reduced power due to first stage drain tank east MSR manway gasket leak.

There are 656 BWR and 160 PWR spent fuel bundles in the Brunswick No. 1 fuel pool.

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE March 1984
 COMPLETED BY Frances Harrison
 TELEPHONE (919) 457-9521

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
84-008	02-10-84	S	.00	B	5	NA			Reduced power for scram testing.

¹
 F- Forced
 S- Scheduled

² 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)

³ Method:
 1-Manual
 2-Manual Scram.
 3-Automatic Scram.
 4-Continuations
 5-Load Reductions
 6-Other

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

⁵ Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984DOCKET NO. 050-0324UNIT NAME Brunswick IIDATE March 1984COMPLETED BY Frances HarrisonTELEPHONE (919)457-9521

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
84-006	01-14-84	F	.00	A	5	NA	CH	INSTRU	Operating at reduced power because 1st and 2nd stage reheat isolated due to steam leak on east 1st stage manway drain tank.

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-Continuations
5-Load Reductions
6-Other

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984DOCKET NO. 050-0324UNIT NAME Brunswick IIDATE March 1984COMPLETED BY Frances HarrisonTELEPHONE (919)457-9521

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
84-011	02-18-84	S	.00	B	5	NA			Rod improvement

¹
F: Forced
S: Scheduled

²
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)

³
Method:
1-Manual
2-Manual Scram.
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984DOCKET NO. 050-0324UNIT NAME Brunswick IIDATE March 1984COMPLETED BY Frances HarrisTELEPHONE (919)457-9521

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
84-012	02-18-84	S	.00	B	5	NA			Reduced power for deb-is filter back-wash as per OP-29.

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.
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE March 1984
 COMPLETED BY Frances Harrison
 TELEPHONE (919)457-9521

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
84-013	02-17-84	F	.00	A	5	NA			Reduced power in order to establish a stable condenser vacuum greater than 26 inches.

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:
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0324
UNIT NAME Brunswick II
DATE March 1984
COMPLETED BY Frances Harrison
TELEPHONE (919) 457-9521

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
84-016	02-22-84	F	33.52	A	3	NA	CD	VALVOP	Rx Scram- Steam line "D" out- board MSIV shutting during performing of PT A22.

1
F: Forced
S: Scheduled

2
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)

3
Method:
1-Manual
2-Manual Scram.
3-Automatic Scram.
4-Continuations
5-Load Reductions
6-Other

4
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Entry Sheets for Licensee
Event Report (LER) File (NUREG-
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5
Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1984

DOCKET NO. 050-0324
 UNIT NAME Brunswick II
 DATE March 1984
 COMPLETED BY Frances Harrison
 TELEPHONE (919)457-9521

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
84-018	02-24-84	F	.00	A	5	NA	CH	PUMPXX	Lost 2B reactor feedpump.

¹
 F: Forced
 S: Scheduled

²
 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)

³
 Method:
 1-Manual
 2-Manual Scram.
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⁵
 Exhibit I - Same Source



Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429

March 5, 1984

FILE: B09-13510C
SERIAL: BSEP/84-0538

Mr. R. C. DeYoung, Director
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
LICENSE NOS. DPR-71 AND DPR-62
DOCKET NOS. 50-325 AND 50-324
MONTHLY OPERATING REPORT

Dear Mr. DeYoung:

In accordance with Technical Specification 6.9.1.6 for the Brunswick Steam Electric Plant, Unit Nos. 1 and 2, Carolina Power & Light Company herewith submits the report of operating statistics and shutdown experience for the month of February 1984.

Very truly yours,

C. R. Dietz, General Manager
Brunswick Steam Electric Plant

FH/kal/LETJA

Enclosures

cc: Ms. J. C. Baker
Mr. S. W. McDowell
Mr. J. P. O'Reilly
Mr. S. L. Rosen

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