

DOCKET NO.: 050-0324  
UNIT: Brunswick 2  
DATE: April 1988  
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY  
BRUNSWICK UNIT 2

Brunswick Unit 2 is in a refueling/maintenance outage.

There are 940 BWR and 144 PWR spent fuel bundles in the Brunswick Unit 2 fuel pool.

8805260322 880331  
PDR ADOCK 05000324  
R DCD

JUN 24  
1/1

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0324  
 UNIT NAME Brunswick 2  
 DATE April 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH March 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88003	880102	S	In progress	C	2	N/A	RC	FuelXX	Refueling/maintenance outage.

Type	Reason	Method	System and Component
F - Forced S - Sched	A - Equip failure B - Maint or test C - Refueling D - Regulatory restriction E - Operator Training & License Examination	F - Admin G - Oper error H - Other	1 - Manual 2 - Manual scram 3 - Auto scram 4 - Continuations 5 - Load Reductions 9 - Other

Exhib. cs F & H  
 Instructions for Preparation  
 of Data Entry Sheet Licensee  
 Event Report (LER) File  
 (NUREG-0161)

COVER NO. 100-1004  
 COMPLETED BY FRANKIE HARRISON  
 TELEPHONE 319-257-0723

OPERATING STATUS

1. UNIT NAME BRUNSWICK UNIT 2
2. REPORTING PERIOD: MARCH 88
3. LICENSED THERMAL POWER (MWT): 2436
4. NAMEPLATE RATING (GROSS MWE): 867.0
5. DESIGN ELECTRICAL RATING (NET MWE): 804.0
6. MAX DEPENDABLE CAPACITY (GROSS MWE) 815.0
7. MAX DEPENDABLE CAPACITY (NET MWE) 766.0
8. IF QUANTITIES OCCUR IN CAPACITY RATINGS, LISTEN TO TURN BY REASON AND REPORT SOME REASONS:

NOTES

9. UNIT DUE TO WHICH RESTRICTED TO ONLY NET MWE
10. REASONS FOR RESTRICTION OF ANY:

	THIS MONTH	LAST MONTH	PERCENT
11. HOURS IN REPORTING PERIOD	744.00	744.00	100.00
12. HOURS IN WHICH REPORTING PERIOD	744.00	744.00	100.00
13. REPORTED RESERVE PLANTDOWN HRS	00.00	00.00	0.00
14. UNIT RESERVE PLANTDOWN HOURS	00.00	00.00	0.00
15. GROSS THERMAL ENERGY GEN. (MWH)	22214.00	22214.00	100.00
16. NET THERMAL ENERGY (MWH)	20998.00	20998.00	100.00
17. UNIT EFFICIENCY PERCENT	94.53	94.53	100.00
18. UNIT FUEL CONSUMPTION (MMBtu)	131.00	131.00	100.00
19. UNIT FUEL COST PER MWH (\$)	0.00	0.00	0.00
20. UNIT FUEL FACTOR (MMBtu per MWh)	5.90	5.90	100.00
21. UNIT FUEL COST PER MWH (\$)	0.00	0.00	0.00
22. UNIT FUEL OUTAGE RATE	0.00	0.00	0.00
23. PLANTDOWN RATE OVER NEXT 1 MONTHS (TYPE, DATE, AND DURATION OF EACH)			

24. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP  
 25. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION), FORECAST MONTHS  
 INITIAL CRITICALITY -----  
 CRITICAL ELECTRICITY -----  
 COMMERCIAL OPERATION -----

0811.00  
 RUN DATE 04/05/88  
 RUN TIME 00.00 11

PLANT PERFORMANCE DATA SYSTEM  
 APPENDIX B - AVERAGE DAILY POWER LEVEL  
 TRUNCHICK UNIT 2

DOCKET NO. 050-1701  
 COMPLETED BY FRANCES HARRISON  
 TELEPHONE (919)457-0754

MARCH 1988

DAY	AVG. DAILY POWER LEVEL (MGE-NET)	DAY	AVG. DAILY POWER LEVEL (MGE-NET)
1	-3	17	-7
2	-4	18	-9
3	-4	19	-11
4	-4	20	-10
5	-4	21	-10
6	-4	22	-10
7	-4	23	-9
8	-4	24	-9
9	-4	25	-9
10	-4	26	-7
11	-4	27	-8
12	-4	28	-7
13	-4	29	-7
14	-4	30	-7
15	-4	31	-6
16	-4		
17	-4		

DOCKET NO.: 050-0325  
UNIT: Brunswick 1  
DATE: April 1988  
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY  
BRUNSWICK UNIT 1

Brunswick Unit 1 had a 97.71 percent capacity factor and a 100.0 percent availability factor for the month of March 1988. There were four power reductions.

There are 1016 BWR and 160 PWR spent fuel bundles in the Brunswick Unit 1 fuel pool.

The Unit 1 maintenance outage event report for February is attached.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE April 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH March 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88015	880325	S	0	A	5	N/A			Reduced power to remove feedwater heaters 4A and 5A from service to investigate instrument leak. Perform rod improvement.

Type	Reason	Method	System and Component
F - Forced S - Sched	A - Equip failure B - Maint or test C - Refueling D - Regulatory restriction E - Operator Training & License Examination	F - Admin G - Oper error H - Other	1 - Manual 2 - Manual scram 3 - Auto scram 4 - Continuations 5 - Load Reductions 9 - Other

Exhibits F & H  
 Instructions for Preparation  
 of Data Entry Sheet Licensee  
 Event Report (LER) File  
 (NUREG-0161)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE April 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH March 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88016	880326	S	0	A	5	N/A			Operate at reduced load due to feedwater heaters 4A and 5A being out of service.

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System and Component</u>
F - Forced S - Sched	A - Equip failure B - Maint or test C - Refueling D - Regulatory restriction E - Operator Training & License Examination	F - Admin G - Oper error H - Other	1 - Manual 2 - Manual scram 3 - Auto scram 4 - Continuations 5 - Load Reductions 9 - Other
			Exhibits F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-0325  
 UNIT NAME Brunswick 1  
 DATE April 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH March 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down Reactor 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88017	880327	S	0	B	5	N/A			Set new rod pattern--previous pattern too cold.

Type	Reason	Method	System and Component
F - Forced S - Sched	A - Equip failure B - Maint or test C - Refueling D - Regulatory restriction E - Operator Training & License Examination	F - Admin G - Oper error H - Other	1 - Manual 2 - Manual scram 3 - Auto scram 4 - Continuations 5 - Load Reductions 9 - Other

Exhibits F & H  
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 Event Report (LER) File  
 (NUREG-0161)



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 050-325  
 UNIT NAME Brunswick 1  
 DATE April 1988  
 COMPLETED BY Frances Harrison  
 TELEPHONE 919-457-2756

REPORT MONTH March 1988

No.	Date	Type 1	Duration (Hours)	Reason 2	Method of Shutting Down 3	Licensee Event Report No.	System Code 4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
88018	880329	S	0	A	5	N/A			Reduce power to return feedwater heater 4A and 5A to service.

<u>Type</u>	<u>Reason</u>	<u>Method</u>	<u>System and Component</u>
F - Forced S - Sched	A - Equip failure B - Maint or test C - Refueling D - Regulatory restriction E - Operator Training & License Examination	F - Admin G - Oper error H - Other	1 - Manual 2 - Manual scram 3 - Auto scram 4 - Continuations 5 - Load Reductions 9 - Other
			Exhibits F & H Instructions for Preparation of Data Entry Sheet Licensee Event Report (LER) File (NUREG-0161)

CPAL:TD  
 RUN DATE 03/05/88  
 RUN TIME 09:00

PLANT PERFORMANCE DATA SYSTEM  
 OPERATING DATA REPORT  
 BRUNSWICK UNIT 1

PAGE  
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DOCKET NO. 050-0115  
 COMPLETED BY FRANCES HARRISON  
 TELEPHONE (919)457-2756

OPERATING STATUS

- | 1. UNIT NAME: BRUNSWICK UNIT 1                | NOTES |
|---|-------|
| 2. REPORTING PERIOD: MARCH 88                 |       |
| 3. LICENSED THERMAL POWER (MWT): 2436         |       |
| 4. NAMEPLATE RATING (GROSS MWE): 887.0        |       |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 821.0  |       |
| 6. MAX DEPENDABLE CAPACITY (GROSS MWE): 815.0 |       |
| 7. MAX DEPENDABLE CAPACITY (NET MWE): 790.0   |       |
- IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT GIVE REASONS:

8. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE)  
 9. REASONS FOR RESTRICTION IF ANY:

	THIS MONTH	YR TO DATE	CUMULATIVE
1. HOURS IN REPORTING PERIOD	744.00	2184.00	9474.00
2. NUMBER OF HOURS REACTOR CRITICAL	744.00	1530.85	7474.24
3. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.19
4. CONDENSATOR ON-LINE	744.00	1461.52	2074.12
5. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
6. GROSS THERMAL ENERGY GEN. (MWH)	1797081.13	7439753.00	12548153.87
7. GROSS NET ENERGY GEN. (MWH)	1506821.00	1131395.00	1140921.00
8. NET THERMAL ENERGY GENERATED (MWH)	174312.00	1093871.00	2210947.00
9. UNIT SERVICE FACTOR	100.00	55.00	54.00
10. UNIT AVAILABILITY FACTOR	100.00	55.00	51.00
11. UNIT CAP. FACTOR (USING MBO NET)	97.74	43.40	43.25
12. UNIT CAP. FACTOR (USING DER NET)	94.02	43.04	49.00
13. UNIT FORCED OUTAGE RATE	.00	.00	14.75
14. SHUTDOWNS SCHED. OVER NEXT 4 MONTHS (TYPE, DATE, AND DURATION OF EACH)			

15. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP  
 16. UNITS IN 1987 STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST

INITIAL CRITICALITY -----  
 INITIAL ELECTRICAL -----  
 COMMERCIAL OPERATION -----

CP&L CO  
RUN DATE 04/05/88  
RUN TIME 09:00:44

PLANT PERFORMANCE DATA SYSTEM  
APPENDIX B - AVERAGE DAILY POWER LEVEL  
BRUNSWICK UNIT 1

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DOCKET NO. 050-0325  
COMPLETED BY FRANCES HARRISON  
TELEPHONE (919)457-2756

MARCH 1988

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	784	17	783
2	783	18	784
3	784	19	746
4	784	20	786
5	778	21	787
6	783	22	783
7	783	23	783
8	782	24	783
9	782	25	768
10	783	26	784
11	778	27	734
12	783	28	741
13	782	29	734
14	784	30	784
15	784	31	784
16	784		