

APPENDIX

DOCKET NO: 050-0325
UNIT: Brunswick No. 1
DATE: September 1981
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 1

Brunswick Unit No. 1 was off the line for the entire month of August for a planned maintenance outage.

There are 476 BWR and 160 PWR spent fuel bundles in the Brunswick Unit No. 1 fuel pool

APPENDIX

DOCKET NO: 050-0324
UNIT: Brunswick No. 2
DATE: September 1981
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at a 90.9% availability factor for the month of August with 68.3% capacity factor. There was one "off-line" outage this month, and two power reductions. They are detailed in Appendix D, the unit shutdowns and power reductions log.

There are 264 BWR and 144 PWR spent fuel bundles in the Brunswick Unit No. 2 fuel pool.

OPERATING DATA REPORT

DOCKET NO. 850-8324
 DATE 09/01/81
 COMPLETED BY FRANCIS HARRISON
 TELEPHONE 919-457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 2	I	NOTES	I
2. REPORTING PERIOD: AUGUST 81	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 THR.) 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	744.0	5831.0	51096.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	693.2	3417.6	32439.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	676.4	3123.6	30087.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1281900.2	5315139.4	54926520.3
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	416044.0	1700589.0	18345035.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	401279.0	1692116.0	17597545.0
19. UNIT SERVICE FACTOR	90.9	53.6	58.9
20. UNIT AVAILABILITY FACTOR	90.9	53.6	58.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	68.3	36.7	43.6
22. UNIT CAPACITY FACTOR (USING DER NET)	65.7	35.3	41.9
23. UNIT FORCED OUTAGE RATE	8.5	44.6	18.1
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION EACH):			

Maintenance 811001 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): FORECAST ACHEIVED

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

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0324
UNIT BRUNSWICK UNIT 2
DATE 09/01/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

AUGUST 81

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	716.	17	644.
2	654.	18	665.
3	676.	19	666.
4	573.	20	647.
5	-14.	21	675.
6	-12.	22	735.
7	83.	23	745.
8	378.	24	746.
9	687.	25	750.
10	645.	26	737.
11	616.	27	693.
12	599.	28	687.
13	397.	29	344.
14	125.	30	396.
15	519.	31	545.
16	491.		

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-4325
UNIT BRUNSWICK UNIT 1
DATE 09/01/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

AUGUST 81

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

OPERATING DATA REPORT

DOCKET NO. 050-0325
DATE 09/01/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	I	NOTES	I
2. REPORTING PERIOD: AUGUST 81	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 WE): 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 MON. H	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	744.0	5931.0	39072.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	2173.6	25975.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	0.0	2056.0	24438.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0.0	3841575.6	49965308.5
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0.0	1256185.0	16581779.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	-4268.0	1187899.0	15935333.0
19. UNIT SERVICE FACTOR	0.0	35.3	62.5
20. UNIT AVAILABILITY FACTOR	0.0	35.3	62.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	-0.7	25.8	51.6
22. UNIT CAPACITY FACTOR (USING DER NET)	-0.7	24.8	49.7
23. UNIT FORCED OUTAGE RATE	0.0	0.3	17.4
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP: 9/25/81
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHEIVED

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1981

DOCKET NO. 050-0325
 UNIT NAME Brunswick
 DATE September 1981
 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
81-024	810828	F	30.5	A	5	N/A	HC	Ht Exch	Tube failed in 2A North waterbox Five tubes were plugged in 2A North.

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 August 1981

DOCKET NO. 050-0325
 UNIT NAME Brunswick 2
 DATE September 1981
 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
81-023	81-08-12	F	52.3	A	5	N/A	CD	VALVOP	<p>Occurrence of large spikes on channel 1 of reactor. Recirculation Pump 2A Shaft Vibration Monitoring System.</p> <p>Be .ly-Nevada, with CP&L assistance, will be troubleshooting the proximity probe vibration system and associated cabling to eliminate the spiking problem during October 1981 outage.</p>

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 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-Lead Reductions
 6-Other

⁴
 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1981

DOCKET NO. 050-0325
 UNIT NAME Brunswick 2
 DATE September 1981
 COMPLETED BY Frances Harrison
 TELEPHONE (919) 457-9521

No.	Date	Type ¹	Duration ² (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
81-022	81-08-04	1	67.7	A	3	N/A	CB	VALVEX	<p>Auxiliary operator opened wrong circulating water valve. Outage was extended due to failed relief valve.</p> <p>Revised methods of assigning auxiliary operators to require only operators who are fully qualified on specific systems may work clearances or perform any operations on the system unless under direct observation of qualified operator. Repaired relief valve.</p>

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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