

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June

DOCKET NO. 050-0324
UNIT NAME Brunswick 2
DATE July 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
81017	810610	F	37.5	B	1	N/A	CB	VALVEX	Reactor coolant in recirc loop A was greater than 50°F cooler than recirc loop B due to loop A discharge valve being shut. Shutdown reactor and equalize reactor coolant temperature throughout coolant boundary.

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
Event Report (LER) File (NUREG-
0161)

⁵ Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June

DOCKET NO. 050-0324
 UNIT NAME Brunswick 2
 DATE July 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
81018	810622	F	129.9	A	3	NA	CB	GENERA	<p>The 2A MG tachometer generator was pulled and inspected revealing excessive carbon deposits within the casing causing a high resistive short from the brush holder insulator and ground.</p> <p>Remove the 2A MG tachometer generator and cleaned the carbon deposits. Also cleaned the commutator and checked for grounds.</p>

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

⁵
 Exhibit I - Same Source

APPENDIX

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

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 1

Brunswick Unit No. 1 was off the line for the entire month of June 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: July 1981
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at a 52.4% availability factor for the month of June with 34.1% capacity factor. There were two "off-line" outages this month, both 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.

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 06/29/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

MAY 81

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

REVISION

OPERATING DATA REPORT

DOCKET NO. 050-0325

DATE 06/29/81

COMPLETED BY FRANCES HARRISON

TELEPHONE 919-457-9521

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1	I	NOTES	I
2. REPORTING PERIOD: MAY 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 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	744.0	3623.0	36864.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	2134.3	25936.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	0.0	2056.8	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)	-3384.0	1203366.0	15950800.0
19. UNIT SERVICE FACTOR	0.0	56.8	66.3
20. UNIT AVAILABILITY FACTOR	0.0	56.8	66.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	-0.6	42.0	54.8
22. UNIT CAPACITY FACTOR (USING DER NET)	-0.6	40.5	52.7
23. UNIT FORCED OUTAGE RATE	0.0	8.3	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: 6/20/81
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

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

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0324
UNIT BRUNSWICK UNIT 2
DATE 07/06/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

JUNE 81

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	-10.	17	730.
2	-7.	18	736.
3	-9.	19	736.
4	-9.	20	735.
5	-10.	21	643.
6	-9.	22	607.
7	-12.	23	-13.
8	36.	24	-12.
9	54.	25	-12.
10	15.	26	-11.
11	-12.	27	-12.
12	320.	28	195.
13	471.	29	423.
14	610.	30	649.
15	629.		
16	613.		

DOCKET NO. 858-8325
DATE 97/66/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9931

```

1. UNIT NAME: BRUNSWICK UNIT 1                                I NOTES
2. REPORTING PERIOD: JUNE 81                                  I
3. LICENSED THERMAL POWER (MWT): 2436                         I
4. NAMEPLATE RATING (GROSS MWE): 867.0                       I
5. DESIGN ELECTRICAL RATING (NET MWE): 821.0                 I
6. MAX DEFENDABLE CAPACITY (GROSS MWE): 815.0                I
7. MAX DEFENDABLE CAPACITY (NET MWE): 790.0                  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
0. REASONS FOR RESTRICTION IF ANY:

```

	THIS MONTH	YR TO DATE	CUMUL ATIVE
11. HOURS IN REPORTING PERIOD	720.0	4343.0	37584.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0.0	2134.3	25936.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	1647.1
14. HOURS GENERATOR ON LINE	0.0	2056.8	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)	-4017.0	1199349.0	15946783.0
19. UNIT SERVICE FACTOR	0.0	47.4	65.0
20. UNIT AVAILABILITY FACTOR	0.0	47.4	65.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	-0.7	35.0	53.7
22. UNIT CAPACITY FACTOR (USING DER NET)	-0.7	33.6	51.7
23. UNIT FORCED OUTAGE RATE	0.0	8.3	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: 7/ 8/81
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERICAL OPERATION	-----	-----

APPENDIX B
AVERAGE DAILY POWER LEVEL

DOCKET NO. 050-0325
UNIT BRUNSWICK UNIT 1
DATE 07/06/81
COMPLETED BY FRANCES HARRISON
TELEPHONE 919-457-9521

JUNE 81

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

OPERATING DATA REPORT

DOCKET NO. 050-0324

DATE 07/06/81

COMPLETED BY FRANCES HARRISON

TELEPHONE 919-457-9521

OPERATING STATUS

	I	NOTES	I
1. UNIT NAME: BRUNSWICK UNIT 2	I		I
2. REPORTING PERIOD: JUNE 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 DEFENDABLE CAPACITY (GROSS MWE): 815.0	I		I
7. MAX DEFENDABLE 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	49608.0
12. NUMBER OF HOURS REACTOR WAS CRITICAL	415.1	2219.1	31241.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON LINE	377.5	2003.6	28967.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	620516.6	3257801.1	52869181.9
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	205234.0	1106974.0	17671420.0
18. NET ELECTRICAL ENERGY GENERATED (MWH)	194041.0	1046268.0	16951697.0
19. UNIT SERVICE FACTOR	52.4	46.1	58.4
20. UNIT AVAILABILITY FACTOR	52.4	46.1	58.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	34.1	30.5	43.3
22. UNIT CAPACITY FACTOR (USING DER NET)	32.8	29.3	41.6
23. UNIT FORCED OUTAGE RATE	47.6	51.8	17.8
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: 07/07/81
 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

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

APPENDIX

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

OPERATIONS SUMMARY
BRUNSWICK UNIT NO. 1

Brunswick Unit No. 1 was off the line for the entire month of June 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: July 1981
COMPLETED BY: Frances Harrison

OPERATIONS SUMMARY BRUNSWICK UNIT NO. 2

Brunswick Unit No. 2 operated at a 52.4% availability factor for the month of June with 34.1% capacity factor. There were two "off-line" outages this month, both 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.