

CP&L CO  
RUN DATE 04/02/90  
RUN TIME 14:13:55

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

PAGE 1  
RPD39-000

DOCKET NO. 050-0325  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

MARCH 1990

| DAY | AVG. DAILY POWER LEVEL<br>(MWE-NET) | DAY | AVG. DAILY POWER LEVEL<br>(MWE-NET) |
|-----|-------------------------------------|-----|-------------------------------------|
| 1   | 784                                 | 17  | 765                                 |
| 2   | 767                                 | 18  | 768                                 |
| 3   | 732                                 | 19  | 778                                 |
| 4   | 782                                 | 20  | 779                                 |
| 5   | 783                                 | 21  | 779                                 |
| 6   | 783                                 | 22  | 780                                 |
| 7   | 782                                 | 23  | 780                                 |
| 8   | 781                                 | 24  | 765                                 |
| 9   | 767                                 | 25  | 755                                 |
| 10  | 761                                 | 26  | 779                                 |
| 11  | 783                                 | 27  | 779                                 |
| 12  | 783                                 | 28  | 781                                 |
| 13  | 781                                 | 29  | 780                                 |
| 14  | 780                                 | 30  | 780                                 |
| 15  | 780                                 | 31  | 773                                 |
| 16  | 780                                 |     |                                     |

1.16 - 8

9004170075 900403  
PDR ADOCK 05000324  
R PDR

CP&L CO  
RUN DATE 04/02/90  
RUN TIME 14:13:57

PLANT PERFORMANCE DATA SYSTEM  
OPERATING DATA REPORT  
BRUNSWICK UNIT 1

PAGE 1  
RPD36-000

DOCKET NO. 050-0325  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

OPERATING STATUS

|   | NOTES |
|---|-------|
| 1. UNIT NAME: BRUNSWICK UNIT 1  |       |
| 2. REPORTING PERIOD: MARCH 90   |       |
| 3. LICENSED THERMAL POWER (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 | CUMULATIVE   |
|---|------------|------------|--------------|
| 11. HOURS IN REPORTING PERIOD   | 744.00     | 2160.00    | 114288.00    |
| 12. NUMBER OF HOURS REACTOR CRITICAL  | 744.00     | 2160.00    | 75513.91     |
| 13. REACTOR RESERVE SHUTDOWN HRS  | .00        | .00        | 1647.10      |
| 14. HOURS GENERATOR ON LINE   | 744.00     | 2160.00    | 72113.04     |
| 15. UNIT RESERVE SHUTDOWN HOURS   | .00        | .00        | .00          |
| 16. GROSS THERMAL ENERGY GEN. (MWH)   | 1798007.70 | 5183277.93 | 154652790.49 |
| 17. GROSS ELEC. ENERGY GEN. (MWH)   | 593375.00  | 1713250.00 | 50775280.00  |
| 18. NET ELEC. ENERGY GENERATED (MWH)  | 576722.00  | 1664461.00 | 48845609.00  |
| 19. UNIT SERVICE FACTOR   | 100.00     | 100.00     | 63.10        |
| 20. UNIT AVAILABILITY FACTOR  | 100.00     | 100.00     | 63.10        |
| 21. UNIT CAP. FACTOR (USING MDC NET)  | 98.12      | 97.54      | 54.10        |
| 22. UNIT CAP. FACTOR (USING DER NET)  | 94.42      | 93.86      | 52.06        |
| 23. UNIT FORCED OUTAGE RATE   | .00        | .00        | 15.15        |
| 24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): |            |            |              |

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

DOCKET NO.: 050-0325  
UNIT: Brunswick 1  
DATE: April 1990  
COMPLETED BY: Ronald Rumble

OPERATIONS SUMMARY  
BRUNSWICK UNIT 1

Unit 1 operated at a 98.12% capacity factor and a 100% availability factor for the month of March 1990. There were two power reductions.

There are 1110 BWR and 160 PWR spent fuel bundles in the Brunswick Unit 1 fuel pool.

|              |               |
|--------------|---------------|
| DOCKET NO.   | 050-0325      |
| UNIT NAME    | Brunswick 1   |
| DATE         | April 1990    |
| COMPLETED BY | Ronald Rumble |
| TELEPHONE    | 919-457-2752  |

| NO.    | DATE   | TYPE 1 | DURATION (HOURS) | REASON 2 | METHOD OF SHUTTING DOWN REACTOR | LICENSEE EVENT REPORT NO. | SYSTEM CODE 4 | COMPONENT CODE 5 | CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE  |
|--------|--------|--------|------------------|----------|---------------------------------|---------------------------|---------------|------------------|--|
| 90-020 | 900321 | F      |                  | A        | 5                               |                           |               |                  | <p>Oscillations of Rx. Recirc. MG set 'B' scoop tube caused by sensitivity adjustment of positioner.</p> <p>Backed Rx. Recirc. Pump 'B' speed down until oscillations ceased and adjusted sensitivity of Bailey scoop tube positioner.</p> |

- 5: EXHIBIT I -  
Same source

UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH March 1990

DOCKET NO. 050-0325  
UNIT NAME Brunswick 1  
DATE April 1990  
COMPLETED BY Ronald Rumble  
TELEPHONE 519-457-2752

| NO.        | DATE   | TYPE 1 | DURATION<br>(HOURS) | REASON 2 | METHOD OF<br>SHUTTING<br>DOWN REACTOR | LICENSEE EVENT<br>REPORT NO. | SYSTEM<br>CODE 4 | COMPONENT<br>CODE 5 | CAUSE & CORRECTIVE ACTION<br>TO PREVENT RECURRENCE   |
|------------|--------|--------|---------------------|----------|---------------------------------------|------------------------------|------------------|---------------------|--|
| 90-<br>022 | 900331 | F      |                     | A        | 5                                     |                              |                  |                     | Circulating water intake pumps<br>tripped-reduced power to 75%.<br><br>Root cause undetermined at this<br>time. Suspect high d/p across<br>trash racks from debris<br>buildup. |

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



CP&L CO  
RUN DATE 04/02/90  
RUN TIME 14:13:55

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

PAGE 2  
RPD39-000

DOCKET NO. 050-0324  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

MARCH 1990

| DAY | AVG. DAILY POWER LEVEL<br>(MWE-NET) | DAY | AVG. DAILY POWER LEVEL<br>(MWE-NET) |
|-----|-------------------------------------|-----|-------------------------------------|
| 1   | -10                                 | 17  | 29                                  |
| 2   | -11                                 | 18  | 211                                 |
| 3   | -10                                 | 19  | 217                                 |
| 4   | -10                                 | 20  | 384                                 |
| 5   | -10                                 | 21  | 523                                 |
| 6   | -6                                  | 22  | 712                                 |
| 7   | -7                                  | 23  | 762                                 |
| 8   | -7                                  | 24  | 749                                 |
| 9   | -11                                 | 25  | 741                                 |
| 10  | -11                                 | 26  | 767                                 |
| 11  | -12                                 | 27  | 768                                 |
| 12  | -13                                 | 28  | 768                                 |
| 13  | -14                                 | 29  | 768                                 |
| 14  | -13                                 | 30  | 768                                 |
| 15  | -17                                 | 31  | 768                                 |
| 16  | 65                                  |     |                                     |

CP&L CO  
RUN DATE 04/02/90  
RUN TIME 14:13:57

PLANT PERFORMANCE DATA SYSTEM  
OPERATING DATA REPORT  
BRUNSWICK UNIT 2

PAGE 2  
RPD36-000

DOCKET NO. 050-0324  
COMPLETED BY RONALD RUMPLE  
TELEPHONE (919)457-2752

OPERATING STATUS

|   | NOTES |
|---|-------|
| 1. UNIT NAME: BRUNSWICK UNIT 2  |       |
| 2. REPORTING PERIOD: MARCH 90   |       |
| 3. LICENSED THERMAL POWER (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 | CUMULATIVE   |
|---|------------|------------|--------------|
| 11. HOURS IN REPORTING PERIOD   | 744.00     | 2160.00    | 126312.00    |
| 12. NUMBER OF HOURS REACTOR CRITICAL  | 460.68     | 460.68     | 79010.79     |
| 13. REACTOR RESERVE SHUTDOWN HRS  | .00        | .00        | .00          |
| 14. HOURS GENERATOR ON LINE   | 356.35     | 356.35     | 74729.69     |
| 15. UNIT RESERVE SHUTDOWN HOURS   | .00        | .00        | .00          |
| 16. GROSS THERMAL ENERGY GEN. (MWH)   | 701813.55  | 701813.55  | 155789207.91 |
| 17. GROSS ELEC. ENERGY GEN. (MWH)   | 224432.00  | 224432.00  | 50396588.00  |
| 18. NET ELEC. ENERGY GENERATED (MWH)  | 212148.00  | 203383.00  | 48302788.00  |
| 19. UNIT SERVICE FACTOR   | 47.90      | 16.50      | 59.16        |
| 20. UNIT AVAILABILITY FACTOR  | 47.90      | 16.50      | 59.16        |
| 21. UNIT CAP. FACTOR (USING MDC NET)  | 36.09      | 11.92      | 48.41        |
| 22. UNIT CAP. FACTOR (USING DER NET)  | 34.73      | 11.47      | 46.58        |
| 23. UNIT FORCED OUTAGE RATE   | .00        | .00        | 12.57        |
| 24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): |            |            |              |

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

DOCKET NO.: 050-0324  
UNIT: Brunswick 2  
DATE: April 1990  
COMPLETED BY: Ronald Rumble

OPERATIONS SUMMARY  
BRUNSWICK UNIT 2

Unit 2 returned to service on March 16, 1990, after refueling/maintenance outage. Unit 2 operated at a 36.09% capacity factor and a 47.9% availability factor for the month of March 1990.

There are 1108 BWR and 144 PWR spent fuel bundles in the Brunswick Unit 2 fuel pool.

There was one power reduction and one SRV failure/challenge.



UNIT SHUTDOWNS AND POWER REDUCTIONS  
REPORT MONTH March 1990

DOCKET NO. 050-0324  
UNIT NAME Brunswick 2  
DATE April 1990  
COMPLETED BY Ronald Rumble  
TELEPHONE 919-457-2752

| NO.                                      | DATE   | TYPE 1 | DURATION<br>(HOURS) | REASON 2 | METHOD OF<br>SHUTTING<br>DOWN REACTOR | LICENSEE EVENT<br>REPORT NO. | SYSTEM<br>CODE 4 | COMPONENT<br>CODE 5 | CAUSE & CORRECTIVE ACTION<br>TO PREVENT RECURRENCE |
|--|--------|--------|---------------------|----------|---------------------------------------|------------------------------|------------------|---------------------|--|
| 90-001<br>*                              | 890909 | S      | 4522.78             | C        | 4                                     |                              | RC               | Fuel XX             | Refueling/Maintenance Outage                       |
| *This is a continuation of event 89-042. |        |        |                     |          |                                       |                              |                  |                     |  |

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

|              |               |
|--------------|---------------|
| DOCKET NO.   | 050-0324      |
| UNIT NAME    | Brunswick 2   |
| DATE         | April 1990    |
| COMPLETED BY | Ronald Rumble |
| TELEPHONE    | 919-457-2752  |

| NO.    | DATE   | TYPE | DURATION<br>(HOURS) | REASON 2 | METHOD OF<br>SHUTTING<br>DOWN REACTOR | LICENSEE EVENT<br>REPORT NO. | SYSTEM<br>CODE 4 | COMPONENT<br>CODE 5 | CAUSE & CORRECTIVE ACTION<br>TO PREVENT RECURRENCE |
|--------|--------|------|---------------------|----------|---------------------------------------|------------------------------|------------------|---------------------|--|
| 90-003 | 900317 | S    | 17.0                | B        | 1                                     |                              |                  |                     | Turbine Overspeed Trip Test                        |

| 1: F - Forced<br>S - Scheduled | 2: REASON<br>A - Equipment failure<br>(explain)<br>B - Maintenance or test<br>C - Refueling<br>D - Regulatory restriction<br>E - Operator Training &<br>License Examination<br>F - Administrative<br>G - Operational error<br>(explain)<br>H - Other (explain) | 3: METHOD<br>1 - Manual<br>2 - Manual scram<br>3 - Automatic<br>scram<br>4 - Continuations<br>5 - Load reductions<br>6 - Other | 4: EXHIBIT G - Instructions<br>for preparation of<br>data entry sheets for<br>Licensee Event Report<br>(LER) file (NUREG-0161) | 5: EXHIBIT I -<br>Same source |
|--------------------------------|--|--|--|-------------------------------|
|                                |  |  |  |                               |

SRV FAILURE/CHALLENGES REPORT

DATE March 13, 1990

TIME OF OCCURRENCE 0535

DETAILS OF SRVs FAILURE:

SRV 2-B21-F013G was being tested in accordance with PT-11.1.2. SRV would not close. As per AOP-30, a manual scram was initiated at 0536. SRV 2-B21-F013G closed at 0537.

DOCKET NO.: 050-0325  
UNIT: Brunswick 1  
DATE: March 1990  
COMPLETED BY: Ronald Rumble

OPERATIONS SUMMARY  
BRUNSWICK UNIT 1

Unit 1 operated at a 96.98% capacity factor and a 100% availability factor for the month of February 1990. There was one power reduction.

There are 1110 EWR and 150 PWR spent fuel bundles in the Brunswick Unit 1 fuel pool.