CP&L

Carolina Power & Light Company

Brunswick Nuclear Project
P. O. Box 10429
Southport, NC 28461-0429

APR 1 0 1992

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U.S. Nuclear Regulatory Commission
Washington, DC 20555
Attn: Document Control Desk

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

Gentlemen:

In accordance with Technical Specification 6.9.1.11 for the Brunswick Steam Electric Plant, Units 1 and 2, Carolina Power & Light Company herewith submits the report of operating statistics and shutdown experience for the month of March 1992.

Very truly yours,

J. W. Spencer, General Manager
Brunswick Nuclear Project

RDR/mcg
90-0041.MSC

Enclosures

cc: Ms. D. M. Aslett
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IE24 1/1

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

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

MARCH 1992

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	-16	17	779
2	-15	18	716
3	-13	19	434
4	-14	20	510
5	-12	21	777
6	596	22	777
7	775	23	779
8	778	24	779
9	778	25	779
10	777	26	779
11	778	27	779
12	777	28	779
13	777	29	759
14	778	30	779
15	777	31	778
16	778		

PLANT PERFORMANCE DATA SYSTEM
OPERATING DATA REPORT
BRUNSWICK UNIT 1

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

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT 1
2. REPORTING PERIOD: MARCH 92
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): 791.0
7. MAX DEPENDABLE CAPACITY (NET MWE): 767.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS:

NOTES -There are 560 fuel bundles in the Reactor Core, 1090 BWR and 160 PWR spent fuel bundles in the Fuel Pool, and 108 fuel bundles in the new fuel storage vault.

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	2184.00	131832.00
12. NUMBER OF HOURS REACTOR CRITICAL	637.68	2021.03	87384.47
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
14. HOURS GENERATOR ON LINE	624.43	1994.21	83708.27
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1458986.66	4719559.02	181844794.45
17. GROSS ELEC. ENERGY GEN. (MWH)	477970.00	1550910.00	59634390.00
18. NET ELEC. ENERGY GENERATED (MWH)	462818.00	1502915.00	57396245.00
19. UNIT SERVICE FACTOR	83.93	91.31	63.50
20. UNIT AVAILABILITY FACTOR	83.93	91.31	63.50
21. UNIT CAP. FACTOR (USING MDC NET)	81.10	89.72	55.24
22. UNIT CAP. FACTOR (USING DER NET)	75.77	83.82	53.03
23. UNIT FORCED OUTAGE RATE	16.07	8.69	15.33

24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Unit 1 is scheduled to be shutdown approximately 21 days for a periodic testing outage from May 30, 1992 to June 19, 1992. Also scheduled is approximately a 4 day outage to search for drywell inleakages. Exact dates at present have not been established.
25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF START UP:
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORECAST ACHIEVED

	FORECAST	ACHIEVED
INITIAL CRITICALITY	--------	--------
INITIAL ELECTRICITY	--------	--------
COMMERCIAL OPERATION	--------	--------

DOCKET NO. 050-0325
UNIT NAME Brunswick 1
DATE April 1992
COMPLETED BY Ronald Rumple
TELEPHONE 919-457-2752

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH March 1992

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
92-011	920229	F	119.57	A	4 *See note	1-92-005	TG	94	Reactor scrammed while stop valve testing was in progress. Caused by a defective relay in the Electrohydraulic Control System.

1: Type
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: System Code: Instructions for preparation of data entry sheets for Licensee Event Report (LER) file from IEEE Standard 805-1983, per NUREG-1022, Section VI, Item 13.b

5: Component Code: Instructions for preparation of data entry sheets for LER file from IEEE Standard 803A-1983, per NUREG-1022, Section VI, Item 13.c

*Reactor scrammed at 2300 hours on February 29, 1992, and was synchronized to the grid at 2334 hours on March 5, 1992.

DOCKET NO. 050-0325
UNIT NAME Brunswick 1
DATE April 1992
COMPLETED BY Ronald Rumple
TELEPHONE 919-457-2752

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH March 1992

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
92-014	920318	F	0	A	5	N/A	JK	SC	Reactor power was reduced to remove 1B Reactor Feed Pump (RFP) from service due to hunting caused by defective motor gear unit (MGU). Repaired the MGU, returned 1B RFP to service and increased reactor power to 100%.

1: Type
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: System Code:
Instructions for preparation of data entry sheets for Licensee Event Report (LER) file from IEEE Standard 805-1983, per NUREG-1022, Section VI, Item 13.b

5: Component Code
Instructions for preparation of data entry sheets for LER file from IEEE Standard 803A-1983, per NUREG-1022, Section VI, Item 13.c

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

MARCH 1992

DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY	AVG. DAILY POWER LEVEL (MWE-NET)
1	604	17	608
2	604	18	321
3	605	19	448
4	605	20	443
5	605	21	449
6	605	22	449
7	605	23	544
8	606	24	594
9	607	25	596
10	607	26	588
11	606	27	588
12	607	28	588
13	606	29	587
14	605	30	587
15	607	31	587
16	607		

DOCKET NO. 050-0?24
COMPLETED BY RONALD RUMPLE
TELEPHONE (919)457-2752

OPERATING STATUS

1. UNIT NAME: BRUNSWICK UNIT ?
2. REPORTING PERIOD: MARCH 92
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): 782.0
7. MAX DEPENDABLE CAPACITY (NET MWE): 754.0
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THRU 7) SINCE LAST REPORT, GIVE REASONS:

NOTES - There are 560 fuel bundles in the Reactor Core, 1113 BWR and 144 PWR spent fuel bundles in the fuel pool, and 0 fuel bundles in the new fuel storage vault.

9. POWER LEVEL TO WHICH RESTRICTED IF ANY (NET MWE): Approximately 600 MWE
10. REASONS FOR RESTRICTION IF ANY: Power level restricted to 80% due to EHC problems. This power level restriction is self-imposed.

	THIS MONTH	YR TO DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744.00	2184.00	143856.00
12. NUMBER OF HOURS REACTOR CRITICAL	744.00	1903.35	91616.40
13. REACTOR RESERVE SHUTDOWN HRS	.00	.00	.00
14. HOURS GENERATOR ON LINE	744.00	1709.03	86662.52
15. UNIT RESERVE SHUTDOWN HOURS	.00	.00	.00
16. GROSS THERMAL ENERGY GEN. (MWH)	1348483.85	3265068.24	183195768.89
17. GROSS ELEC. ENERGY GEN. (MWH)	438580.00	1073805.00	59257899.00
18. NET ELEC. ENERGY GENERATED (MWH)	424023.00	1034410.00	56824882.00
19. UNIT SERVICE FACTOR	100.00	78.25	60.24
20. UNIT AVAILABILITY FACTOR	100.00	78.25	60.24
21. UNIT CAP. FACTOR (USING MDC NET)	75.59	62.82	50.18
22. UNIT CAP. FACTOR (USING DER NET)	69.42	57.69	48.11
23. UNIT FORCED OUTAGE RATE	.00	14.38	13.39

24. SHUTDOWNS SCHED. OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Unit 2 is scheduled to be shutdown approximately 30 days for repairs to EHC System, Main Turbine, 2B Reactor Feedpump, and 4A Feedwater Heater. The outage dates at present are from April 30, 1992 to May 30, 1992.
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 NAME Brunswick 2
DATE April 1992
COMPLETED BY Ronald Rumple
TELEPHONE 919-457-2752

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH March 1992

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
92-017	920214	F	0	H	6	N/A	TG	XC	Reactor power being maintained at approximately 80% due to continuing electrohydraulic control (EHC) system oscillations. The unit will remain at this power level until the Unit 2 outage scheduled to start April 30, 1992.

1: Type
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: System Code: Instructions for preparation of data entry sheets for Licensee Event Report (LER) file from IEEE Standard 805-1983, per NUREG-1022, Section VI, Item 13.b

5: Component Code: Instructions for preparation of data entry sheets for LER file from IEEE Standard 803A-1983, per NUREG-1022, Section VI, Item 13.c

DOCKET NO. 050-0324
UNIT NAME Brunswick 2
DATE April 1992
COMPLETED BY Ronald Rumple
TELEPHONE 919-457-2752

UNIT SHUTDOWNS AND POWER REDUCTIONS
REPORT MONTH March 1992

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
92-019	920318	F	0	A	5	N/A	IK	AC	While performing primary containment isolation periodic test, both divisions of the hydrogen/oxygen analyzers failed. Due to the mandated 8 hours to hot shutdown LCO, power was reduced in preparation for shutdown. One analyzer was repaired and returned to service prior to the LCO expiration; therefore, shutdown was not required. Power increase was further delayed by a failure of the process computer and then by a failure of the 2B Reactor Feed Pump motor gear unit. Repairs were completed to the Reactor Feed Pump and power was subsequently restored to 77% due to continuing problems with the Electrohydraulic Control System.

1: Type
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: System Code: Instructions for preparation of data entry sheets for Licensee Event Report (LER) file from IEEE Standard 805-1983, per NUREG-1022, Section VI, Item 13.b

5: Component Code: Instructions for preparation of data entry sheets for LER file from IEEE Standard 803A-1983, per NUREG-1022, Section VI, Item 13.c