DOCKET NO.: 050-0325

UNIT: Brunswick 1 DATE: April 1986

COMPLETED BY: Frances Harrison

#### OPERATIONS SUMMARY BRUNSWICK UNIT 1

Brunswick Unit 1 operated at 77.12 percent availability factor for the month of April with a 68.71 percent capacity factor. There were two power reductions and two scrams; the unit was returned to service on April 2, 1986, after the March 26, 1986, scram. Details are in the Unit Shutdowns and Power Reductions sheet.

There are 840 BWR and 160 PWR spent fuel bundles in the Brunswick Unit 1 fuel pool.

DOCKET NO. 050-0325 COMPLETED BY FRANCES HARRISON TELEPHONE (919)457-9521

APRIL	1986		
DAY AVG	. DAILY POWER LEVEL (MWE-NET)	DAY AV	G. DAILY POWER LEVEL (MWE-NET)
1	-15	17	785
2	98	18	785
3	~8	19	636
4	-10	20	636
5	-12	-21	643
6	-13	22	676
7	-12	23	764
8	112	24	766
9	623	25	766
10	675	26	719
11	742	27	781
12	743	28	783
13	771	29	780
1.4	771	30	777
15	766		
16	777		

# PLANT PERFORMANCE DATA SYSTEM OPERATING DATA REPORT BRUNSWICK UNIT 1

PAGE 1 RPD36

OPERATING STATUS

DOCKET NO. 050-0325 COMPLETED BY FRANCES HARRISON TELEPHONE (919)457-9521

1.	UNIT NAME: BRUNSWICK UNIT 1	I NOTES I
2.	REPORTING PERIOD: APRIL 86	
3.	LICENSED THERMAL POWER (MWT): 2436	
4.	NAMEPLATE RATING (GROSS MWE): 867.0	
5.	DESIGN ELECTRICAL RATING (NET MWF): 821.0	
6.	MAX DEPENDABLE CAPACITY (GROSS MWE): 815.	O. 시시 : : : : : : : : : : : : : : : : : :
7.	MAX DEPENDABLE CAPACITY (NET NWE): 790.0	
50	TE PHANCES DEGUG THE SUBARTTY BATTHER ITTE	MO T TUBE TO STREET LAST BEGGET

- 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:

			YR TO DATE	CUMUL ATIVE
	HOURS IN REPORTING PERIOD			
13.	NUMBER OF HOURS REACTOR CRITICAL REACTOR RESERVE SHUTDOWN HRS	.00	.00	1647.10
15.	HOURS GENERATOR ON LINE UNIT RESERVE SHUTDOWN HOURS	.00		.00
17.	GROSS THERMAL ENERGY GEN. (MWH) GROSS ELEC. ENERGY GEN. (MWH)	404505.00	1988204.00	96142276.54. 31739477.00
19.	NET ELEC. ENERGY GENERATED (MWH) UNIT SERVICE FACTOR	77.12	89.57	58.44
24.	UNIT AVAILABILITY FACTOR UNIT CAP. FACTOR (USING MDC NET)	68.71	84.84	48.27
23.	UNIT CAP. FACTOR (USING DER NET) UNIT FORCED OUTAGE RATE	22,38	10.43	19.52
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): FORCAST - ACHELVED

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

DOCKET NO. \_050-0325

UNIT NAME Brunswick

DATE May 1986

COMPLETED BY Frances Harrison TELEPHONE 919-457-9521

REPORT MONTH April 1986

No.	Date	Type	Dustron	Reason	Method of Shutting Down Reactor 3	Licensee Event Report #	System Code4	Component Code 5	Cause & Corrective Action to Prevent Recurrence
86-016	860326	F	161.43	A	3	1-86-009			Reactor scram-main turbine and reactor feed pump trip on high reactor water . level instrument malfunction.

F: Forced S: Scheduled

Reas..n

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)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Continuations

5-Load Reductions

6-Other

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit I - Same Source

REPORT MONTH \_ April 1986

DOCKET NO. 050-0325 UNIT NAME Brunswick I

DATE May 1986

COMPLETED BY Frances Harrison

TELEPHONE 919-457-9521

No.	Date	Typel	Durmon	Reason -	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code 5	Cause & Corrective Action to Prevent Recurrence
86-024	860402	P	2.22	А	3				Main Turbine Trip

F: Forced

S: Scheduled

Reas...n

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)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Continuations

5-Load Reductions

6-Other

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit 1 - Same Source

DOCKET NO. 050-0325 UNIT NAME Brunswick I

DATE May 1986

COMPLETED BY Frances Harrison TELEPHONE 919-457-9521

### REPORT MONTH April 1986

No.	Date	Type	Durton	Reason -	Method of Shutting Down Reactor	Licensee Event Report #	System Code <sup>4</sup>	Code5	Cause & Corrective Action to Prevent Recurrence
86-025	860402	F	136.7	A	3				Reactor Scram - Low Reactor Water Level due to loss of Bus 1D

F: Forced S: Scheduled Reas.n

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)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scrain.

4-Continuations

5-Load Reductions

6-Other

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File , NUREG-01611

Exhibit 1 Same Source

DOCKET NO.

050-0325 UNIT NAME Brunswick I

DATE May 1986

COMPLETED BY Frances Harrison

TELEPHONE 919-457-9521

REPORT MONTH \_\_April 1986

No.	Date	Type1	Duration	Reason.	Method of Shutting Down Reactor	Licensee Event Report #	System Code <sup>4</sup>	Component Code 5	Cause & Corrective Action to Prevent Recurrence
86-020	860419	F	.00	A	5				Heater drain pump problems .
	MILE S								

F: Forced S Scheduled

Readin

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)

Method:

I-Manual

2-Manual Scram.

3-Automatic Scram.

4-Continuations

5-Load Reductions

6-Other

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit 1 - Same Source

DOCKET NO. UNIT NAME Brunswick

050-0325

DATE May 1986

COMPLETED BY Frances Harrison

TELEPHONE 919-457-9521

REPORT MONTH	April 1986
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No.	Date	Type1	Dustron	Reason-	Method of Shutting Down Reactor?	Licensee Event Report #	System Code4	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
6-022	860426	S	.00	В	5				Rod improvement

F: Forced S: Scheduled 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)

Method: 1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Continuations

5-Load Reductions

6-Other

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-01611

Exhibit 1 - Same Source

## CP&L CO PLANT PERFORMANCE DATA SYSTEM PAGE RUN DATE 05/05/86 APPENDIX B - AVERAGE DAILY POWER LEVEL RPD39 ICK UNIT 2

RPD39

DOCKET NO. 050-0324 COMPLETED BY FRANCES HARRISON TELEPHONE (919)457-9521

APRIL	1986		
DAY	AVG. DAILY POWER LEVEL (MWE-NET)	DAY AVG	. DAILY POWER LEVEL (MWE-NET)
1	-6	17	-8
2	-4	18	-8
3	-6	19	-8
4	-7	20	-8
5	-6	21	-9
6	-6	22	-10
7		23	-10
. 8		24	-10
9	-7	25	-10
10	~9	26	-11
11		27	-10
12	-8	28	-11
13	-7	29	-10
14	-7	30	-10
15	-8		
16.			

# PLANT PERFORMANCE DATA SYSTEM OPERATING DATA REFORT ICK UNIT 2

PAGE 2 RPD36

OPERATING STATUS

COMPLETED BY FRANCES HARRISON TELEPHONE (919)457-9521

1.	UNIT NAME: I	CK UNIT 2	NOTES
2.	REPORTING PERIOD	APRIL 86	
3.	LICENSED THERMAL P	OWER (MWT): 2436	
4.	NAMEPLATE RATING (	GROSS MWE) 867.0	
5.	DESIGN ELECTRICAL	RATING (NET MWE): 821.0	
6.	MAX DEPENDABLE CAP	ACITY (GROSS MWE): 815.0	
7.	MAX DEPENDABLE CAP	ACITY (NET MWE): 790.0 -	

- 8. IF CHANGES DOCUR 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:

	YR TO DATE	
HOURS IN REPORTING PERIOD		
NUMBER OF HOURS REACTOR CRITICAL REACTOR RESERVE SHUTDOWN HRS		
HOURS GENERATOR ON LINE		51011.09
UNIT RESERVE SHUTDOWN HOURS		
GROSS THERMAL ENERGY GEN. (MWH)		
GROSS ELEC. ENERGY GEN. (MWH) NET ELEC. ENERGY GENERATED (MWH)	-15495 00	
UNIT SERVICE FACTOR UNIT AVAILABILITY FACTOR		
UNIT CAP. FACTOR (USING MDC NET)		
UNIT CAP, FACTOR (USING DER NET)		
UNIT FORCED OUTAGE RATE SHUTDOWNS SCHED. OVER NEXT & MONTHS		

25. IF SHUTDOWN AT FND OF REPORT PERIOD, ESTIMATED DATE OF START UP: 06/13/86 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): FORCAST ACHEIVED

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

DOCKET NO.: 050-0324

UNIT: Brunswick 2

DATE: May 1986

COMPLETED BY: Frances Harrison

#### OPERATIONS SUMMARY BRUNSWICK UNIT 2

The unit was removed from service on November 30, 1985, for the refueling/maintenance outage.

There are 756 BWR and 144 PWR spent fuel bundles in the Brunswick Unit 2 fuel pool.

DOCKET NO. UNIT NAME DATE

050-0324 Brunswick II May 1986

REPORT MONTH April 1986

Frances Harrison COMPLETED BY 919-457-9521 TELEPHONE

No.	Date	Typel	Duration (Hours)	Reason-	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code5	Cause & Corrective Action to Prevent Recurrence
85-078	851130	S	In Progress	С	4	NA	RC	FUELXX	Refueling/Maintenance Outage

F: Forced S: Scheduled 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)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Continuations

5-Load Reductions

6-Other

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

Exhibit 1 - Same Source

Carolina Power & Light Company

Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461-0429

May 2, 1986

FILE: B09-13510C SERIAL: BSEP/86-0664

Mr. J. M. Taylor, Director Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission Washington, DC 20555

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

Dear Mr. Taylor:

In accordance with Technical Specification 6.9.1.6 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 April 1986.

Very truly yours,

C. R. Dietz, General Manager Brunswick Steam Electric Plant

FH/cab MSC/85-0014

Enclosures

cc: Mr. M. R. Beebe

Dr. J. N. Grace

Mr. M. D. Hill

Mr. P. W. Howe

Mr. C. F. Lassiter

Mr. R. G. Oehl

Ms. D. J. Vicks

INPO