

NRC FORM 195
(2-76)

U.S. NUCLEAR REGULATORY COMMISSION

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50-261

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FILE NUMBER
MONTHLY REPORT

TO: E. VOLGENAU

FROM: CAROLINA POWER & LIGHT CO.
RALEIGH, N.C.
H.R. BANKS

DATE OF DOCUMENT
12-10-76

DATE RECEIVED
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DESCRIPTION

LETTER TRANS THE FOLLOWING:

ENCLOSURE

MONTHLY REPORT FOR NOVEMBER 1976
PLANT & COMPONENT OPERABILITY & AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: H.B. ROBINSON #2

SAFETY

FOR ACTION/INFORMATION

ENVIRO

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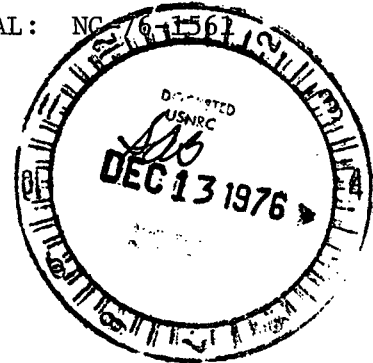
Carolina Power & Light Company

December 10, 1976

FILE: NG-3513 (R)

SERIAL: NG-1561

Mr. Ernst Volgenau, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Volgenau:

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
MONTHLY OPERATIONS REPORT

In accordance with Technical Specification 6.9.1.c for the H. B. Robinson Steam Electric Plant, Unit No. 2, Carolina Power & Light Company herewith submits the report of operating statistics and shutdown experience for the month of November, 1976. In addition you will find attached a correction sheet from the October, 1976 report.

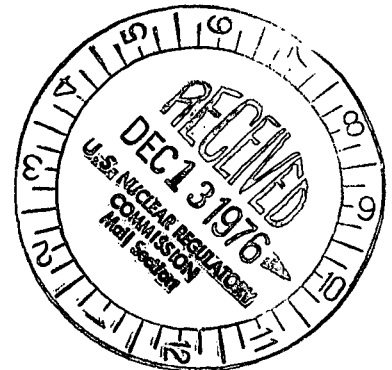
Yours very truly,

H. R. Banks
Manager
Nuclear Generation

CSB:bhb

Enclosure

cc: Messrs. W. G. McDonald
N. C. Moseley



APPENDIX C OPERATING DATA REPORT

DOCKET NO. DPR-23
UNIT H. B. Robinson Two
DATE 11-5-76
COMPLETED BY M. L. Watford
TELEPHONE 332-1351

OPERATING STATUS 761001,0000/

1. REPORTING PERIOD: 761031,2400 GROSS HOURS IN REPORTING PERIOD: 745
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2200 MAX. DEPEND. CAPACITY (MWe-Net): 665
DESIGN ELECTRICAL RATING (MWe-Net): 700
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): None
4. REASONS FOR RESTRICTION (IF ANY): None

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	687.71	7056.29	39,073.79
6. REACTOR RESERVE SHUTDOWN HOURS	10.01	93.79	323.28
7. HOURS GENERATOR ON LINE	680.00	7004.02	38,303.02
8. UNIT RESERVE SHUTDOWN HOURS	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWH)	1,470,744	*15,094,253	79,215,694
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	475,987	*4,879,109	25,775,033
11. NET ELECTRICAL ENERGY GENERATED (MWH)	452,263	*4,642,788	24,458,290
12. REACTOR SERVICE FACTOR	92.31	96.40	78.72
13. REACTOR AVAILABILITY FACTOR	93.65	97.68	79.37
14. UNIT SERVICE FACTOR	91.28	95.68	77.16
15. UNIT AVAILABILITY FACTOR	91.28	95.68	77.16
16. UNIT CAPACITY FACTOR (Using MDC)	91.29	95.38	74.10
17. UNIT CAPACITY FACTOR (Using Design MWe)	86.72	*90.61	70.39
18. UNIT FORCED OUTAGE RATE	.35	2.83	15.14

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: December 2, 1976

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

	FORECAST	ACHIEVED
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INITIAL CRITICALITY

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INITIAL ELECTRICITY

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COMMERCIAL OPERATION

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*Indicates Corrections

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. DPR-23

UNIT H. B. Robinson Two

DATE December 2, 1976

COMPLETED BY M. L. Watford

TELEPHONE (803) 332-1351
Ext. 142

MONTH November, 1976

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>-</u>

INSTRUCTIONS

On this form, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

These figures will be used to plot a graph for each reporting month. Note that when maximum dependable capacity is used for the net electrical rating of the unit, there may be occasions when the daily average power level exceeds the 100% line (or the restricted power level line). In such cases, the average daily unit power output sheet should be footnoted to explain the apparent anomaly.

APPENDIX C OPERATING DATA REPORT

DOCKET NO. DPR-23
UNIT H. B. Robinson Two
DATE December 2, 1976
COMPLETED BY M. L. Watford
TELEPHONE (803) 332-1351
Ext. 142

OPERATING STATUS 0000,761101-

1. REPORTING PERIOD: 2400,761130 GROSS HOURS IN REPORTING PERIOD: 720

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2200 MAX. DEPEND. CAPACITY (MWe-Net): 665
DESIGN ELECTRICAL RATING (MWe-Net): 700

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): None

4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL	0	7,056.29	39,073.79
6. REACTOR RESERVE SHUTDOWN HOURS	0	93.79	323.28
7. HOURS GENERATOR ON LINE	0	7,004.02	38,303.02
8. UNIT RESERVE SHUTDOWN HOURS	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWH)	0	15,094,253	79,215,694
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	4,879,109	25,775,033
11. NET ELECTRICAL ENERGY GENERATED (MWH)	0	4,642,788	24,458,290
12. REACTOR SERVICE FACTOR	0	87.76	77.59
13. REACTOR AVAILABILITY FACTOR	0	88.93	78.23
14. UNIT SERVICE FACTOR	0	87.11	76.06
15. UNIT AVAILABILITY FACTOR	0	87.11	76.06
16. UNIT CAPACITY FACTOR (Using MDC)	0	86.84	73.04
17. UNIT CAPACITY FACTOR (Using Design MWe)	0	82.49	69.38
18. UNIT FORCED OUTAGE RATE	0	2.83	15.14

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): None

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: December 5, 1976

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	--	--
INITIAL ELECTRICITY	--	--
COMMERCIAL OPERATION	--	--

APPENDIX D
UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. DPR-23

UNIT NAME H. B. Robinson Two

DATE December 2, 1976

COMPLETED BY M. L. Watford

TELEPHONE (803) 332-1351
Ext. 142

REPORT MONTH November, 1976

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
324	10/30/76	S	720	C	1	<p>(1) REASON A: EQUIPMENT FAILURE (EXPLAIN) B: MAINT. OR TEST C: REFUELING D: REGULATORY RESTRICTION E: OPERATOR TRAINING AND LICENSE EXAMINATION F: ADMINISTRATIVE G: OPERATIONAL ERROR (EXPLAIN) H: OTHER (EXPLAIN)</p> <p>Unit shutdown entire month due to refueling outage. This outage is a continuation of the 10-30 shut- down reported last month.</p> <p>(2) METHOD 1: MANUAL 2: MANUAL SCRAM. 3: AUTOMATIC SCRAM 4: OTHER (EXPLAIN)</p>

SUMMARY:

Unit Shutdown for Refueling Outage