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H. B. ROBINSON UNIT NO. 2 MONTHLY OPERATIONS REPT. FOR DECEMBER 1977.

PLANT NAME: H B ROBINSON - UNIT 2

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MONTHLY OPERATING REPORT FOR GRAY BOOK PREPARATION.
(DISTRIBUTION CODE A003)

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Carolina Power & Light Company

January 12, 1978

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FILE: NG-3513 (R)

SERIAL: GD-78-057

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 December, 1977.

Yours very truly,

H. R. Banks
Manager
Nuclear Generation

DCS:men

Enclosure

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

A003/5
1/10 *

780200167

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. DPR-23

UNIT H. B. Robinson Two

DATE 780104

COMPLETED BY M. L. Watford

TELEPHONE (803) 332-1351

MONTH December 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>673</u>
2	<u>672</u>
3	<u>675</u>
4	<u>655</u>
5	<u>676</u>
6	<u>677</u>
7	<u>665</u>
8	<u>678</u>
9	<u>679</u>
10	<u>679</u>
11	<u>657</u>
12	<u>678</u>
13	<u>679</u>
14	<u>681</u>
15	<u>680</u>
16	<u>680</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>679</u>
18	<u>623</u>
19	<u>397</u>
20	<u>294</u>
21	<u>630</u>
22	<u>677</u>
23	<u>677</u>
24	<u>678</u>
25	<u>647</u>
26	<u>677</u>
27	<u>679</u>
28	<u>678</u>
29	<u>678</u>
30	<u>677</u>
31	<u>678</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 780104
COMPLETED BY M. L. Watford
TELEPHONE (803) 332-1351

OPERATING STATUS 0000 2400

1. REPORTING PERIOD: 771201 771231 GROSS HOURS IN REPORTING PERIOD: 744
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	<u>742.27</u>	<u>7,585.77</u>	<u>47,182.12</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>89.74</u>	<u>425.05</u>
7. HOURS GENERATOR ON LINE	<u>741.68</u>	<u>7,466.32</u>	<u>46,205.87</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1,571,222</u>	<u>14,278,810</u>	<u>94,267,496</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>508,216</u>	<u>4,480,637</u>	<u>30,505,303</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>483,672</u>	<u>4,230,398</u>	<u>28,919,989</u>
12. REACTOR SERVICE FACTOR	<u>99.77</u>	<u>86.60</u>	<u>78.82</u>
13. REACTOR AVAILABILITY FACTOR	<u>99.77</u>	<u>87.62</u>	<u>79.53</u>
14. UNIT SERVICE FACTOR	<u>99.69</u>	<u>85.23</u>	<u>77.19</u>
15. UNIT AVAILABILITY FACTOR	<u>99.69</u>	<u>85.23</u>	<u>77.19</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>97.76</u>	<u>72.62</u>	<u>72.65</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>92.87</u>	<u>68.99</u>	<u>69.02</u>
18. UNIT FORCED OUTAGE RATE	<u>.31</u>	<u>14.21</u>	<u>14.89</u>

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

Refueling, February, 6 weeks

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: On Line

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

FORECAST	ACHIEVED
<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>

APPENDIX D
UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. DPR-23
UNIT NAME H. R. Robinson Two
DATE 780104
COMPLETED BY M. L. Watford
TELEPHONE (803) 332-1351

REPORT MONTH December 1977

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
12-01	771219	F	2.09	B	3	Over temperature ΔT while performing periodic testing
12-02	771219	F	0.23	A	3	Turbine trip due to high SG level while recovering from previous trip
12-03	771219	F	0	D	4	Constant axial offset control penalty points (Load Reduction)
						<p>(1) REASON</p> <p>A: EQUIPMENT FAILURE (EXPLAIN)</p> <p>B: MAINT. OR TEST</p> <p>C: REFUELING</p> <p>D: REGULATORY RESTRICTION</p> <p>E: OPERATOR TRAINING AND LICENSE EXAMINATION</p> <p>F: ADMINISTRATIVE</p> <p>G: OPERATIONAL ERROR (EXPLAIN)</p> <p>H: OTHER (EXPLAIN)</p> <p>(2) METHOD</p> <p>1: MANUAL</p> <p>2: MANUAL SCRAM.</p> <p>3: AUTOMATIC SCRAM</p> <p>4: OTHER (EXPLAIN)</p>

SUMMARY: The unit was on the line for the majority of the month. An efpd of 29.758 was accumulated during the report period. Two trips were experienced during the month.