



Carolina Power & Light Company

April 13, 1977

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50-261

FILE: NG-3513 (R)

SERIAL: NG-77-423

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 March, 1977.

Yours very truly,

H. R. Banks
Manager
Nuclear Generation

WH:mp

Enclosure

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

MR
GD

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. DPR-23

UNIT H. B. Robinson Two

DATE 4-4-77

COMPLETED BY M. L. Watford

TELEPHONE 332-1351

MONTH March, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|-----|
| 1 | 683 |
| 2 | 683 |
| 3 | 682 |
| 4 | 684 |
| 5 | 683 |
| 6 | 660 |
| 7 | 678 |
| 8 | 680 |
| 9 | 681 |
| 10 | 679 |
| 11 | 678 |
| 12 | 680 |
| 13 | 612 |
| 14 | 668 |
| 15 | 674 |
| 16 | 657 |

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

| | |
|----|-----|
| 17 | 678 |
| 18 | 677 |
| 19 | 677 |
| 20 | 676 |
| 21 | 674 |
| 22 | 673 |
| 23 | 368 |
| 24 | 39 |
| 25 | 366 |
| 26 | 0 |
| 27 | 540 |
| 28 | 673 |
| 29 | 673 |
| 30 | 673 |
| 31 | 673 |

*Daily average power level may exceed maximum dependable capacity due to impoundment temperature.

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 4-4-77
COMPLETED BY M. L. Watford
TELEPHONE (803) 332-1351

OPERATING STATUS 0000,770301-
2400,770331

1. REPORTING PERIOD: _____ GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 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>725.87</u> | <u>1,861.84</u> | <u>41,458.19</u> |
| 6. REACTOR RESERVE SHUTDOWN HOURS | <u>18.13</u> | <u>40.30</u> | <u>375.61</u> |
| 7. HOURS GENERATOR ON LINE | <u>688.01</u> | <u>1,781.83</u> | <u>40,521.38</u> |
| 8. UNIT RESERVE SHUTDOWN HOURS | <u>0</u> | <u>0</u> | <u>0</u> |
| 9. GROSS THERMAL ENERGY GENERATED (MWH) | <u>1,468,474</u> | <u>3,830,588</u> | <u>83,819,274</u> |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) | <u>475,055</u> | <u>1,249,071</u> | <u>27,273,737</u> |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH) | <u>451,435</u> | <u>1,186,145</u> | <u>25,875,736</u> |
| 12. REACTOR SERVICE FACTOR | <u>97.56</u> | <u>86.20</u> | <u>77.84</u> |
| 13. REACTOR AVAILABILITY FACTOR | <u>100.00</u> | <u>88.06</u> | <u>78.54</u> |
| 14. UNIT SERVICE FACTOR | <u>92.47</u> | <u>82.49</u> | <u>76.08</u> |
| 15. UNIT AVAILABILITY FACTOR | <u>92.47</u> | <u>82.49</u> | <u>76.08</u> |
| 16. UNIT CAPACITY FACTOR (Using MDC) | <u>91.24</u> | <u>82.58</u> | <u>73.06</u> |
| 17. UNIT CAPACITY FACTOR (Using Design MWe) | <u>86.68</u> | <u>78.45</u> | <u>69.40</u> |
| 18. UNIT FORCED OUTAGE RATE | <u>4.17</u> | <u>16.50</u> | <u>15.09</u> |
| 19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): | <u>None</u> | | |

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. B. Robinson Two

DATE 4-4-77

COMPLETED BY M. L. Watford

TELEPHONE (803) 332-1351

REPORT MONTH March, 1977

11613

| NO. | DATE | TYPE F: FORCED S: SCHEDULED | DURATION (HOURS) | REASON (1) | METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2) | CORRECTIVE ACTIONS/COMMENTS |
|------|--------|-----------------------------------|---------------------|------------|--|---|
| 03-1 | 770323 | F | 29.95 | A | 3 | (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) E.H. governor valves failed closed causing reactor trip Turbine governor control valves swinging - partial Repair turbine trip block (2) METHOD 1: MANUAL 2: MANUAL SCRAM. 3: AUTOMATIC SCRAM 4: OTHER (EXPLAIN) |
| 03-2 | 770324 | F | 0 | A | 4 | |
| 03-3 | 770325 | S | 26.04 | B | 1 | |

SUMMARY: The unit was on the line 688.01 hours, and the reactor was serviceable 744 hours. The unit experienced various turbine and valve problems during the month resulting in an EFPD of 27.812.