MONTHLY REPORTS (FOR GRAY BOOK PREPARATION)

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FILE: MONTHLY REPORT FILE

FROM: Carolina Power & Light Co. Raleigh, N.C. E.E. Utley	DATE OF DOC 8-13-75	DATE REC'D 8-13-75	LTR	TWX xxx	RPT	OTHER
TO: Mr. Donald Knuth	ORIG not signed	CC 1	OTHER	SENT AEC PDR xxx SENT LOCAL PDR xxx		
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ENCLOSURES:

Monthly Report for July, 1975
Plant & Component Operability & Availability
This Report to be used in preparing Gray Book by Plans & Operations.

NUMBER OF COPIES REC'D: 1

PLANT NAME: H.B. Robinson #2

FOR ACTION/INFORMATION 8-14-75 JGB

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monthly report file

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Aug. 1975

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U.S. NUCLEAR REGULATORY COMMISSION
Mail Section

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

Dear Mr. Knuth:

H. B. ROBINSON UNIT NO. 2
LICENSE NO. DPR-23
MONTHLY OPERATING DATA REPORTS

Enclosed please find the H. B. Robinson Unit No. 2 Operating Data Report. This report is for the month of June 1975.

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

DOCKETED
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AUG 13 1975
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8574

APPENDIX C

DOCKET NO. DPR-23
UNIT H. B. Robinson Two
DATE 8/6/75
COMPLETED BY M. L. Watford

AVERAGE DAILY UNIT POWER LEVEL

MONTH July, 1975

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	667	17	671
2	667	18	675
3	670	19	676
4	671	20	661
5	668	21	675
6	657	22	676
7	670	23	674
8	670	24	674
9	671	25	671
10	670	26	667
11	401	27	643
12	0	28	665
13	0	29	662
14	292	30	664
15	664	31	662
16	667		

Average Daily MWe - net may exceed 665 - MWe - net due to impoundment temperature.

DAILY UNIT POWER LEVEL FORM 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 by using maximum dependable capacity 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

DOCKET NO. DPR-23
UNIT H. B. Robinson Two
DATE 8/6/75
COMPLETED BY M. L. Watford

AVERAGE DAILY UNIT POWER LEVEL

MONTH July, 1975

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	667	17	671
2	667	18	675
3	670	19	676
4	671	20	661
5	668	21	675
6	657	22	676
7	670	23	674
8	670	24	674
9	671	25	671
10	670	26	667
11	401	27	643
12	0	28	665
13	0	29	662
14	292	30	664
15	664	31	662
16	667		

Average Daily MWe - net may exceed 665 - MWe - net due to impoundment temperature.

DAILY UNIT POWER LEVEL FORM 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 by using maximum dependable capacity 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 D

UNIT H. B. Robinson

DATE 8/6/75

COMPLETED BY M. L. Watford

DOCKET NO. DPR-23

OPERATING STATUS

1. REPORTING PERIOD 0000, 750701 THROUGH 2400, 0731
   HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt) 2200 MAX. DEPENDABLE CAPACITY (MWe-NET) 665
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): None
4. REASONS FOR RESTRICTION (IF ANY): None

		THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5.	HOURS REACTOR WAS CRITICAL	676.71	3,771.86	29,263.29
6.	REACTOR RESERVE SHUTDOWN HOURS	0	81.8	213.08
7.	HOURS GENERATOR ON LINE	676.64	3,740.03	28,662.64
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED (MWH)	1,476,710	8,059,287	58,592,067
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	472,300	2,634,085	19,133,519
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	448,581	2,500,200	18,144,928
12.	REACTOR AVAILABILITY FACTOR (1)	91.22	74.15	75.72
13.	UNIT AVAILABILITY FACTOR (2)	90.95	73.52	74.18
14.	UNIT CAPACITY FACTOR (3)	90.67	73.91	70.61
15.	UNIT FORCED OUTAGE RATE (4)	9.03	18.08	16.60

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): Refueling Outage, November, 4 weeks
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: On Line
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	-	-
INITIAL ELECTRICAL POWER GENERATION	-	-
COMMERCIAL OPERATION	-	-

(1) REACTOR AVAILABILITY FACTOR = (HOURS REACTOR WAS CRITICAL / HOURS IN REPORTING PERIOD) X 100

(2) UNIT AVAILABILITY FACTOR = (HOURS GENERATOR ON LINE / HOURS IN REPORTING PERIOD) X 100

(3) UNIT CAPACITY FACTOR = (NET ELECTRICAL POWER GENERATED / MAX. DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD)

(4) UNIT FORCED OUTAGE RATE = (FORCED OUTAGE HOURS / HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS) X 100

APPENDIX D

UNIT H. B. Robinson Two
DATE 10-3-75
COMPLETED BY M. L. Watford
DOCKET NO. DPR-23

OPERATING STATUS

1. REPORTING PERIOD: 0000, 750901 THROUGH 2400,0930
   HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt) 2200 MAX. DEPENDABLE CAPACITY (MWe-NET) 665
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET) None
4. REASONS FOR RESTRICTION (IF ANY) None

		THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5.	HOURS REACTOR WAS CRITICAL	697.23	5212.07	30703.50
6.	REACTOR RESERVE SHUTDOWN HOURS	1.22	82.04	215.32
7.	HOURS GENERATOR ON LINE	696.68	5177.04	30104.65
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED (MWH)	1,493,923	11,170,104	61,702,884
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	474,538	3,617,735	20,117,169
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	451,013	3,435,692	19,080,420
12.	REACTOR AVAILABILITY FACTOR (1)	96.82	79.56	76.55
13.	UNIT AVAILABILITY FACTOR (2)	96.77	79.03	75.06
14.	UNIT CAPACITY FACTOR (3)	94.20	78.87	71.54
15.	UNIT FORCED OUTAGE RATE (4)	3.53	14.14	17.93

16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH): Refueling - November - Six (6) Weeks
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: On Line
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

	DATE LAST FORECAST	DATE ACHIEVED
INITIAL CRITICALITY	-	-
INITIAL ELECTRICAL POWER GENERATION	-	-
COMMERCIAL OPERATION	-	-

(1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

(2) UNIT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

(3) UNIT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX DEPENDABLE CAPACITY (MWe-NET) X HOURS IN REPORTING PERIOD}}$

(4) UNIT FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS}} \times 100$

APPENDIX E

UNIT SHUTDOWNS

DOCKET NO. DPR-23

UNIT NAME H. B. Robinson No. 2

DATE 10-3-75

COMPLETED BY M. L. Watford

REPORT MONTH September, 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	9/4/75	F	2.03	A	3	Turbine Trip due to high steam generator level caused by loss of both heater drain pumps due to malfunction of drain pump discharge valve.
2	9/21/75	F	21.42	A	2	Rod Control Failure - Urgent failure due to defective fuse in power supply to rod control cabinet 1-AC. Extension of outage was also caused by failure of source range N-32, due to failed detector and preamp.

(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)

(2) METHOD
1-MANUAL
2-MANUAL SCRAM
3-AUTOMATIC SCRAM

E-911

SUMMARY:

The unit was on the line for 694.58 hours during the month with a capacity factor of 94.20%. The unit experienced two trips during the month with a forced outage rate of 3.53%.

APPENDIX E

UNIT SHUTDOWNS

DOCKET NO. DPR-23

UNIT NAME H. B. Robinson Two

DATE 8/6/75

COMPLETED BY M. L. Watford

REPORT MONTH July, 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	7/11/75	F	67.36	A	1	Control Rod L-5 Failure

(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)

(2) METHOD
1-MANUAL
2-MANUAL SCRAM
3-AUTOMATIC SCRAM

SUMMARY:

APPENDIX E

UNIT SHUTDOWNS

DOCKET NO. DPR-23

UNIT NAME H. B. Robinson Two

DATE 8/6/75

COMPLETED BY M. L. Watford

REPORT MONTH July, 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	7/11/75	F	67.36	A	1	Control Rod L-5 Failure

(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)

(2) METHOD
1-MANUAL
2-MANUAL SCRAM
3-AUTOMATIC SCRAM

SUMMARY:

1651