NRC FORM 195 (2-76) U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER 50-269/270/287

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FILE NUMBER MONTHLY REPORT

TO: NRC

FROM: Duke Power Co.
Charlotte, N.C.
W.O. Parker, Jr.

DATE OF DOCUMENT 4-9-76

DATE RECEIVED 4-13-76

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DESCRIPTION
LETTER TRANS THE FOLLOWING:

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

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: Oconee # 1,2, & 3

SAFETY — FOR ACTION/INFORMATION — ENVIRO — SAB 4-13-76

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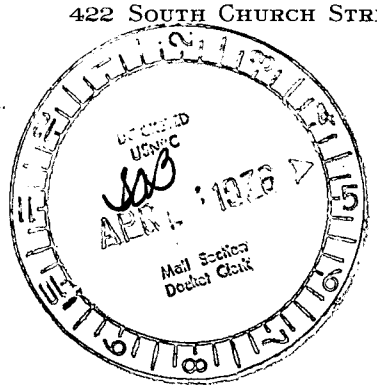
DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

Regulatory File Cy

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083



April 9, 1976

Director
Office of Management Information
and Program Control
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

Please find attached information concerning the performance and operating status of the Oconee Nuclear Station for the month of March 1976.

Very truly yours,

William O. Parker, Jr.

EDB:mmb

Attachment

CC Mr. Norman C. Moseley

3712

UNIT Oconee Unit 1
DATE 04/09/76
DOCKET NO. 50-269
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
   (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY):(MWe-Net) NONE
4. REASONS FOR RESTRICTION (IF ANY)

		This Month	Year to Date	Cumulative
5.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	9.8	903.0	17675.1
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	-0-	828.9	1759.6
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED(MWH)	-0-	2084465	36308607
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	-0-	712180	12606900
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	(-)4969	671195	11909844
12.	REACTOR SERVICE FACTOR	1.3	41.4	74.4
13.	REACTOR AVAILABILITY FACTOR	-0-	41.7	67.7
14.	UNIT SERVICE FACTOR	-0-	38.0	66.3
15.	UNIT AVAILABILITY FACTOR	-0-	38.0	66.5
16.	UNIT CAPACITY FACTOR (Using Net Capability)	-0-	35.3	57.6
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	-0-	34.7	56.6
18.	UNIT FORCED OUTAGE RATE	-0-	9.0	16.4

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

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
    Unit became critical on March 31, 1976.

REACTOR SERVICE FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT SERVICE FACTOR = $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT AVAILABILITY FACTOR = $\frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{[Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING PERIOD}} \times 100$

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

DOCKET NO. 50-269
UNIT Oconee Unit 1
DATE 04/09/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH March 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	-	17	-
2	-	18	-
3	-	19	-
4	-	20	-
5	-	21	-
6	-	22	-
7	-	23	-
8	-	24	-
9	-	25	-
10	-	26	-
11	-	27	-
12	-	28	-
13	-	29	-
14	-	30	-
15	-	31	-
16	-		

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.

DOCKET NO. 50-269

UNIT NAME Oconee Unit 1

DATE 04/09/76

UNIT SHUTDOWNS

REPORT MONTH March 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
2	760301	S	744	C	1	Continuation of previous outage

(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:

Reactor remained shutdown for refueling. Reactor made critical March 31, 1976.

UNIT Oconee Unit 2
DATE 04/09/76
DOCKET NO. 50-270
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY):(MWe-Net) NONE
4. REASONS FOR RESTRICTION (IF ANY)

		This Month	Year to Date	Cumulative
5.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	744.0	1946.1	10505.2
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	744.0	1916.3	10195.7
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED(MWH)	1755743	4624626	24297054
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	598960	1574400	8274956
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	572700	1501397	7856548
12.	REACTOR SERVICE FACTOR	100.0	89.1	76.8
13.	REACTOR AVAILABILITY FACTOR	100.0	88.1	75.1
14.	UNIT SERVICE FACTOR	100.0	87.7	74.5
15.	UNIT AVAILABILITY FACTOR	100.0	87.7	74.5
16.	UNIT CAPACITY FACTOR (Using Net Capability)	88.4	78.9	65.9
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	86.8	77.5	64.7
18.	UNIT FORCED OUTAGE RATE	-	12.2	22.9

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

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

REACTOR SERVICE FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT SERVICE FACTOR = $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT AVAILABILITY FACTOR = $\frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{[Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING PERIOD}} \times 100$

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

DOCKET NO. 50-270
UNIT Oconee Unit 2
DATE 04/09/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH March 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	601	17	833
2	692	18	835
3	819	19	834
4	823	20	831
5	817	21	830
6	662	22	831
7	686	23	829
8	831	24	830
9	830	25	829
10	830	26	743
11	828	27	608
12	829	28	616
13	831	29	614
14	833	30	616
15	834	31	616
16	833		

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.

DOCKET NO. 50-270
UNIT NAME Oconee Unit 2
DATE 04/09/76

UNIT SHUTDOWNS

REPORT MONTH March 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS

(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:

No outages this month. Unit operated at reduced power level (3 RCP operation) during latter part of month due to low oil level in RCP motor.

UNIT Oconee Unit 3
DATE 04/09/76
DOCKET NO. 50-287
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: March 1 THROUGH March 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 744.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY
   (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY):(MWe-Net) NONE
4. REASONS FOR RESTRICTION (IF ANY)

		This Month	Year to Date	Cumulative
5.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	419.9	1692.6	8836.8
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	413.0	1673.5	8622.2
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED(MWH)	945930	3830101	19748151
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	322590	1316160	6761074
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	305928	1256282	6434716
12.	REACTOR SERVICE FACTOR	56.4	77.5	78.0
13.	REACTOR AVAILABILITY FACTOR	55.5	76.9	80.3
14.	UNIT SERVICE FACTOR	55.5	76.6	76.1
15.	UNIT AVAILABILITY FACTOR	55.5	76.6	76.1
16.	UNIT CAPACITY FACTOR (Using Net Capability)	47.2	66.0	65.2
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	46.4	64.9	64.0
18.	UNIT FORCED OUTAGE RATE	44.5	23.4	14.0

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

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
    April 19, 1976

REACTOR SERVICE FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT SERVICE FACTOR = $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT AVAILABILITY FACTOR = $\frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$

UNIT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{[Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING PERIOD}} \times 100$

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

DOCKET NO. 50-287
UNIT Oconee Unit 3
DATE 04/09/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH March 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	-	17	786
2	-	18	786
3	154	19	785
4	624	20	478
5	674	21	-
6	674	22	-
7	677	23	-
8	809	24	-
9	807	25	-
10	810	26	-
11	805	27	-
12	794	28	-
13	792	29	-
14	792	30	-
15	792	31	-
16	789		

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.

DOCKET NO. 50-287
UNIT NAME Oconee Unit 3
DATE 04/09/76

UNIT SHUTDOWNS

REPORT MONTH March 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	760301	F	59.13	A	1	Continuation of previous outage.
4	760320	F	271.87	H	1	Unit shutdown for inspection of specimen surveillance tubes.

(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:

Replacement of reactor coolant pump seals completed. Reactor remained shutdown at end of month for inspection of surveillance tubes.