NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

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DOCKET NUMBER: 50-269-270-287

FILE NUMBER: MONTHLY REPORT

TO: NRC

FROM: DUKE POWER CO
CHARLOTTE, NC
W O PARKER JR

DATE OF DOCUMENT: 5-10-76

DATE RECEIVED: 5-13-76

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PLANT NAME: OCONEE 1-2-3

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

[illegible]

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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

May 10, 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 April 1976.

Very truly yours,

W. O. Parker, Jr.

William O. Parker, Jr. By

EDB:mmb

Attachment

CC Mr. Norman C. Moseley

UNIT Oconee Unit 1
DATE 05/10/76
DOCKET NO. 50-269
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1976
   GROSS HOURS IN REPORTING PERIOD: 719.00
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	420.23	1323.26	18095.32
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	301.20	1130.05	16060.84
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED (MWH)	528630	2613095	36837237
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	192930	905110	12799830
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	175610	846805	12085454
12.	REACTOR SERVICE FACTOR	58.45	45.58	73.92
13.	REACTOR AVAILABILITY FACTOR	41.89	41.76	66.89
14.	UNIT SERVICE FACTOR	41.89	38.93	65.61
15.	UNIT AVAILABILITY FACTOR	41.89	38.93	65.73
16.	UNIT CAPACITY FACTOR (Using Net Capability)	28.04	33.49	56.68
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	27.54	32.89	55.66
18.	UNIT FORCED OUTAGE RATE	-0-	6.78	16.10

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

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
    May 21, 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 1
DATE May 10, 1976

AVERAGE DAILY UNIT POWER LEVEL

MONTH April 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	-	17	779
2	-	18	386
3	-	19	-
4	-	20	-
5	-	21	-
6	208	22	-
7	312	23	-
8	486	24	-
9	580	25	-
10	619	26	-
11	616	27	-
12	603	28	-
13	743	29	-
14	693	30	-
15	768	31	-
16	776		

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 05/10/76

UNIT SHUTDOWNS

REPORT MONTH April 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
2	760401	S	120.55	C	1	Continuation of previous outage.
3	760418	S	297.25	B	1	Inspection and repair of reactor internals.

(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:

Refueling and initial power testing completed during first part of this period.
Unit remained down at end of period for inspection of reactor internals.

UNIT Oconee Unit 2
DATE 05/10/76
DOCKET NO. 50-270
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1976
   GROSS HOURS IN REPORTING PERIOD: 719.00
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	166.23	2112.37	10671.43
6. REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7. HOURS GENERATOR ON-LINE	160.28	2076.54	10356.00
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	297865	4922491	24594919
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	103700	1678100	8378656
11. NET ELECTRICAL ENERGY GENERATED (MWH)	96927	1598324	7953475
12. REACTOR SERVICE FACTOR	23.12	72.77	74.11
13. REACTOR AVAILABILITY FACTOR	22.29	71.80	72.48
14. UNIT SERVICE FACTOR	22.29	71.53	71.92
15. UNIT AVAILABILITY FACTOR	22.29	71.53	71.92
16. UNIT CAPACITY FACTOR (Using Net Capability)	15.48	63.21	63.41
17. UNIT CAPACITY FACTOR (Using Design Mwe)	15.20	62.07	62.27
18. UNIT FORCED OUTAGE RATE	77.71	28.47	25.75

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

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
    June 9, 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 = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{[\text{Net Capability or Design (Mwe-Net)}] \times \text{HOURS IN REPORTING PERIOD}} \times 100$

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 2
DATE 05/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH April 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	616	17	-
2	615	18	-
3	616	19	-
4	616	20	-
5	615	21	-
6	616	22	-
7	425	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. 50-270

UNIT SHUTDOWNS

UNIT NAME Oconee Unit 2

DATE 05/10/76

REPORT MONTH April 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
5	760407	F	558.72	A	1	Inspection and repair of reactor internals.

(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:

Unit remained down at end of month for inspection and repair of reactor internals.

UNIT Oconee Unit 3
DATE 05/10/76
DOCKET NO. 50-287
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: April 1 THROUGH April 30, 1976
   GROSS HOURS IN REPORTING PERIOD: 719.00
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	320.65	2013.21	9157.47
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	307.11	1980.58	8929.28
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED (MWH)	677628	4507729	20425779
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	232060	1548220	6993134
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	217902	1474184	6652618
12.	REACTOR SERVICE FACTOR	44.60	69.35	76.01
13.	REACTOR AVAILABILITY FACTOR	42.71	68.42	78.09
14.	UNIT SERVICE FACTOR	42.71	68.23	74.12
15.	UNIT AVAILABILITY FACTOR	42.71	68.23	74.12
16.	UNIT CAPACITY FACTOR (Using Net Capability)	34.79	58.30	63.40
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	34.17	57.25	62.26
18.	UNIT FORCED OUTAGE RATE	57.29	31.77	16.86

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
    September 1, 1976 - Refueling - 5 Weeks
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 = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{[Net Capability or Design (Mwe-Net)]} \times \text{HOURS IN REPORTING PERIOD}} \times 100$

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 3
DATE 05/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH April 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	-	17	-
2	-	18	544
3	-	19	689
4	-	20	386
5	-	21	689
6	-	22	732
7	-	23	751
8	-	24	778
9	-	25	745
10	-	26	783
11	-	27	739
12	-	28	771
13	-	29	789
14	-	30	788
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. 50-287
UNIT NAME Oconee Unit 3
DATE 05/10/76

UNIT SHUTDOWNS

REPORT MONTH April 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
4	760401	F	405.78	H	1	Continuation of previous outage.
5	760420	F	6.11	G	3	Reactor trip on flux imbalance.

(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:

Unit shutdown for most of month for completion of reactor surveillance tubes inspection.