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: N. R. C.

FROM: DUKE POWER COMPANY
CHARLOTTE, NORTH CAROLINA
MR. WILLIAM O. PARKER, JR.

DATE OF DOCUMENT: 6/10/76

DATE RECEIVED: 6/14/76

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PLANT NAME:

OCONEE 1-2-3

(1-P)

ENCLOSURE: MONTHLY REPORT FOR MAY/76
PLANT & COMPONENT OPERABILITY & AVAILABILITY. THIS REPORT TO BE USED IN PREPARING GRAY BOOK BY PLANS & OPERATIONS.

9-P)

SAFETY — FOR ACTION/INFORMATION — ENVIRO 6/15/76 RJL

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NRC FORM 195 (2-76)

Regulatory File Cy.

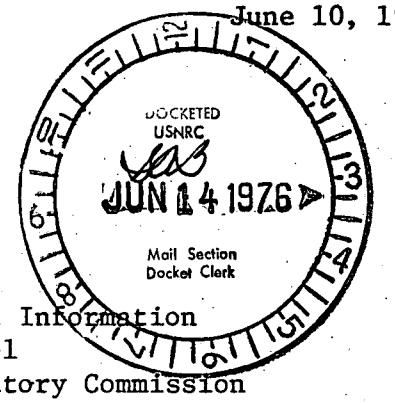
DUKE POWER COMPANY

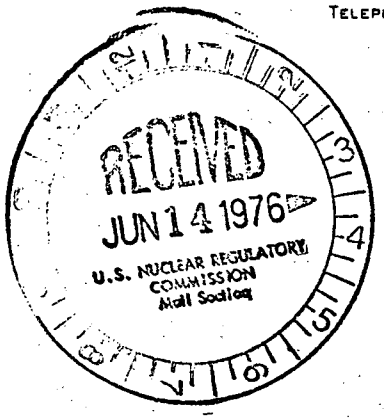
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

June 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 June 1976.

Very truly yours,

William O. Parker, Jr.

EDB:ge
Attachment

cc: Mr. Norman C. Moseley

6064

UNIT Oconee Unit 1
DATE 6/10/76
DOCKET NO. 50-269
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 744.0
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	19.7	1342.9	18115.0
6. REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7. HOURS GENERATOR ON-LINE	5.6	1135.6	16066.4
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	3534	2616629	36840771
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	1140	906250	12800970
11. NET ELECTRICAL ENERGY GENERATED (MWH)	-4691	842114	12080763
12. REACTOR SERVICE FACTOR	2.6	36.8	71.8
13. REACTOR AVAILABILITY FACTOR	.8	33.4	64.9
14. UNIT SERVICE FACTOR	.8	31.1	63.7
15. UNIT AVAILABILITY FACTOR	.8	31.1	63.8
16. UNIT CAPACITY FACTOR (Using Net Capability)	-	26.5	55.0
17. UNIT CAPACITY FACTOR (Using Design Mwe)	-	26.0	54.0
18. UNIT FORCED OUTAGE RATE	26.7	6.9	16.1

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. 50-269
UNIT Oconee Unit 1
DATE 6/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 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	12
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 6/10/76

UNIT SHUTDOWNS

REPORT MONTH May, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	760501	S	736.47	A	1	Continuation of previous outage
4	760531	F	1.97	H	3	Reactor trip due to high Reactor Coolant System pressure

(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:

Inspection and repair of reactor internals completed.

UNIT Oconee Unit 2
DATE 6/10/76
DOCKET NO. 50-270
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 744.0
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	-	2112.4	10671.4
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	-	2076.5	10356.0
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED(MWH)	-	4922491	24594919
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	-	1678100	8378656
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	-1343	1596981	7952132
12.	REACTOR SERVICE FACTOR	-	57.9	70.5
13.	REACTOR AVAILABILITY FACTOR	-	57.2	68.9
14.	UNIT SERVICE FACTOR	-	56.9	68.4
15.	UNIT AVAILABILITY FACTOR	-	56.9	68.4
16.	UNIT CAPACITY FACTOR (Using Net Capability)	-	50.3	60.3
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	-	49.4	59.2
18.	UNIT FORCED OUTAGE RATE	100.00	36.4	27.6

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 28, 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. 50-270
UNIT Oconee Unit 2
DATE 6/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 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. 50-270
UNIT NAME Oconee Unit 2
DATE 6/10/76

UNIT SHUTDOWNS

REPORT MONTH May, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
5	760501	F	360.0	A	1	Continuation of previous outage
6	760515	S	384.0	C	1	Refueling 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:
Inspection and repair of reactor internals completed. Reactor remained shutdown for refueling.

UNIT Oconee Unit 3
DATE 6/10/76
DOCKET NO. 50-287
PREPARED BY E. D. Blakeman

OPERATING STATUS

1. REPORTING PERIOD: May 1 THROUGH May 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 744.0
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	2757.2	9901.5
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	744.0	2724.6	9673.3
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED (MWH)	1903700	6411429	22329479
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	659420	2207640	7652554
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	632295	2106479	7284913
12.	REACTOR SERVICE FACTOR	100.0	75.6	77.4
13.	REACTOR AVAILABILITY FACTOR	100.0	74.9	79.4
14.	UNIT SERVICE FACTOR	100.0	74.7	75.6
15.	UNIT AVAILABILITY FACTOR	100.0	74.7	75.6
16.	UNIT CAPACITY FACTOR (Using Net Capability)	97.6	66.3	65.4
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	95.8	65.1	64.2
18.	UNIT FORCED OUTAGE RATE	-	25.3	15.8

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

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 6/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH May, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	817	17	856
2	828	18	852
3	828	19	856
4	827	20	860
5	831	21	857
6	843	22	860
7	858	23	857
8	861	24	858
9	862	25	852
10	854	26	849
11	862	27	847
12	862	28	843
13	862	29	844
14	858	30	846
15	856	31	846
16	854		

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 6/10/76

UNIT SHUTDOWNS

REPORT MONTH May, 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.