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: USNRC

FROM: DUKE PWR. CO.
CHARLOTTE, N.C.
W.O. PARKER, JR.

DATE OF DOCUMENT: 11-10-76

DATE RECEIVED: 11-15-76

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DESCRIPTION

LTR. TRANS THE FOLLOWING.....

PLANT NAME: OCONEE # 1,2, & 3

ENCLOSURE

CORRECTED CY. OF MONTHLY OPERATING REPORT FOR OCTOBER 1976.....

ACKNOWLEDGED

DO NOT REMOVE

SAFETY — FOR ACTION/INFORMATION — ENVIRO — SAB 11-17-76

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NRC FORM 195 (2-76)

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

November 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 October, 1976.

In response to your letter of October 29, 1976 which noted a discrepancy in previously reported operating data, the following correction is provided:

The January, 1975 "outage" hours as reported for Oconee Unit 3 in our February 7, 1975 operating data submittal is incorrect. The reported value is 307.0 hours; the correct valve is 282.9 hours.

Very truly yours,

William O. Parker, Jr.

EDB:ge
Attachment

cc: Mr. Norman C. Moseley

11650

UNIT Oconee Unit 1
DATE 11/10/76
DOCKET NO. 50-269
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: October 1 THROUGH October 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 745.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
4. REASONS FOR RESTRICTION (IF ANY) _____

	This Month	Year to Date	Cumulative
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	726.1	4953.4	21725.5
6. REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7. HOURS GENERATOR ON-LINE	718.6	4681.9	19612.7
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	1768878	11314532	45538674
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	608270	3941570	15836290
11. NET ELECTRICAL ENERGY GENERATED (MWH)	578451	3732253	14970902
12. REACTOR SERVICE FACTOR	97.5	67.7	75.2
13. REACTOR AVAILABILITY FACTOR	96.5	65.2	69.0
14. UNIT SERVICE FACTOR	96.5	64.00	67.9
15. UNIT AVAILABILITY FACTOR	96.5	64.00	68.0
16. UNIT CAPACITY FACTOR (Using Net Capability)	89.1	58.6	59.5
17. UNIT CAPACITY FACTOR (Using Design Mwe)	87.5	57.5	58.4
18. UNIT FORCED OUTAGE RATE	3.6	3.8	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:
November 13, 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 11/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH October, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	839	17	835
2	841	18	840
3	841	19	843
4	837	20	842
5	840	21	843
6	839	22	840
7	838	23	840
8	838	24	841
9	493	25	841
10	620	26	843
11	802	27	274
12	829	28	759
13	838	29	832
14	833	30	837
15	829	31	199
16	837		

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 11/10/76

UNIT SHUTDOWNS

REPORT MONTH October, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
13	76-10-27	F	10.51	A	3	Control rod drive power supply malfunction during scheduled test
14	76-10-31	F	15.92	A	1	Repair steam generator tube leaks

(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:

Investigation of steam generator tube leaks in progress at the end of the month.

UNIT Oconee Unit 2
DATE 11/10/76
DOCKET NO. 50-270
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: October 1 THROUGH October 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 745.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) _____
4. REASONS FOR RESTRICTION (IF ANY) _____

		This Month	Year to Date	Cumulative
5.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	739.4	4691.8	13250.8
6.	REACTOR RESERVE SHUTDOWN HOURS			
7.	HOURS GENERATOR ON-LINE	735.00	4528.0	12807.5
8.	UNIT RESERVE SHUTDOWN HOURS			
9.	GROSS THERMAL ENERGY GENERATED (MWH)	1707921	10693873	30366301
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	583800	3597340	10342896
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	555838	3455843	9810994
12.	REACTOR SERVICE FACTOR	99.2	64.1	70.4
13.	REACTOR AVAILABILITY FACTOR	98.7	62.3	68.6
14.	UNIT SERVICE FACTOR	98.7	61.9	68.1
15.	UNIT AVAILABILITY FACTOR	98.7	61.9	68.1
16.	UNIT CAPACITY FACTOR (Using Net Capability)	85.7	54.2	59.9
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	84.1	53.2	58.8
18.	UNIT FORCED OUTAGE RATE	1.4	23.8	24.6

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

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

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 11/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH October, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	824	17	583
2	826	18	785
3	696	19	820
4	805	20	805
5	828	21	824
6	824	22	719
7	820	23	832
8	819	24	832
9	767	25	833
10	734	26	832
11	806	27	829
12	811	28	824
13	466	29	821
14	461	30	823
15	477	31	850
16	184		

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 11/10/76

UNIT SHUTDOWNS

REPORT MONTH October, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
13	76-10-16	F	10.03	A	1	Low oil level indication on reactor coolant pump motor

(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 major outages this month.

UNIT Oconee Unit 3
DATE 11/10/76
DOCKET NO. 50-287
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: October 1 THROUGH October 31, 1976
   GROSS HOURS IN REPORTING PERIOD: 745.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY (MWe-Net): 871
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net)
4. REASONS FOR RESTRICTION (IF ANY)

		This Month	Year to Date	Cumulative
5.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	0	4986.46	12130.72
6.	REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7.	HOURS GENERATOR ON-LINE	0	4925.91	11874.61
8.	UNIT RESERVE SHUTDOWN HOURS	-	-	-
9.	GROSS THERMAL ENERGY GENERATED (MWH)	0	11673683	27591733
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	4022770	9467684
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	-2841	3831514	9009948
12.	REACTOR SERVICE FACTOR	0	68.1	73.7
13.	REACTOR AVAILABILITY FACTOR	0	67.5	75.1
14.	UNIT SERVICE FACTOR	0	67.3	72.1
15.	UNIT AVAILABILITY FACTOR	0	67.3	72.1
16.	UNIT CAPACITY FACTOR (Using Net Capability)	0	60.1	62.8
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	0	59.0	61.7
18.	UNIT FORCED OUTAGE RATE	0	19.2	14.8

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

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
November 10, 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 11/10/76

AVERAGE DAILY UNIT POWER LEVEL

MONTH October, 1976

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

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 11/10/76

UNIT SHUTDOWNS

REPORT MONTH October, 1976

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
11	76-10-1	S	745.0	C	1	Continuation of annual 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:

Unit in refueling shutdown for entire month of October.