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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

September 12, 1977

Telephone: Area 704 373-4083

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 August, 1977.

Very truly yours,

William O. Parker, Jr. By Host

JAR:ge Attachment

cc: Mr. J. P. O'Reilly

UNIT Oconee Unit 1

DATE 9/12/77

DOCKET NO. 50-269

PREPARED BY J. A. Reavis

OPERATING STATUS

20.

1.	REPORTING PERIOD: January	THROUGH	August, 1977	
	GROSS HOURS IN REPORTING PERIOD:	744.00		
2.	CURRENTLY AUTHORIZED POWER LEVEL	(MWt): 2568 N	ET CAPABILITY	
	(MWe-Net): 860			
3.	POWER LEVEL TO WHICH RESTRICTED (IF ANY):(MWe-1	Net)	
4.	REASONS FOR RESTRICTION (IF ANY)		· · · · · · · · · · · · · · · · · · ·	
5.	NUMBER OF HOURS THE REACTOR WAS	This Month	Year to Date	Cumulative
	CRITICAL	111.13	3835.41	25951.21
6.	REACTOR RESERVE SHUTDOWN HOURS			
7.	HOURS GENERATOR ON-LINE	110.08	3777.64	23741.63
8.	UNIT RESERVE SHUTDOWN HOURS	_		
9.	GROSS THERMAL ENERGY GENERATED (MW	H)_231648	8879906	55265617
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	79940	3065630	19189060
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	71946	2902166	18134699
12.	REACTOR SERVICE FACTOR	14.94	65.78	71.70
13.	REACTOR AVAILABILITY FACTOR	14.80	67.03	68.05
14.	UNIT SERVICE FACTOR	14.80	64.79	65.60
15.,	UNIT AVILABILITY FACTOR	14.80	64.79	65.68
16.	UNIT CAPACITY FACTOR (Using Net	11.24	57.87	58.26
17.	Capability) UNIT CAPACITY FACTOR (Using Design Mwe)	10.90	56.11	56.49
18.	UNIT FORCED OUTAGE RATE	0	27.31	19.41
19.	SHUTDOWNS SCHEDULED OVER NEXT 6 M	ONTHS (TYPE, I	DATE & DURATION	OF EACH:)

September 23, 1977

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

REACTOR SERVICE FACTOR = HOURS REACTOR WAS CRITICAL X 100

REACTOR AVAILABILITY FACTOR = HOURS REACTOR WAS AVAILABLE TO OPERATE X 100

UNIT SERVICE FACTOR = HOURS GENERATOR ON LINE HOURS IN REPORTING PERIOD X 100

UNIT AVAILABILITY FACTOR = HOURS UNIT WAS AVAILABLE TO GENERATE X 100

UNIT CAPACITY FACTOR = NET ELECTRICAL POWER GENERATED X 100
[Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING
PERIOD

UNIT FORCED OUTAGE RATE = FORCED OUTAGE HOURS
HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS X 100

DOCKET	NO.	50-269

UNIT NAME Oconee Unit 1

DATE 9-12-77

UNIT SHUTDOWNS

REPORT MONTH August, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
14	77-08-0	5 S	633.92	С	1	Scheduled out for refueling.
					·	
						(1) REASON AEQUIPMENT FAILURE (EXPLAIN) B- MAINT. OR TEST. C- REFUELING D-REGULATORY RESTRICTION E-OPERATOR TRAINING AND LICENSE EXAMINATION F-ADMINISTRATIVE G-OPERATIONAL ERROR (EXPLAIN) (2) METHOU 1-MANUAL 2-MANUAL 3-AUTOMATIC 5CRAM 4-Other
						H-OTHER (EXPLAIN)

SUMMARY:

DOCKET NO.	50-269
UNIT	Oconee Unit 1
DATE	9/12/77

AVERAGE DAILY UNIT POWER LEVEL

MONTH	August, 1977		
DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY A	VERAGE DAILY POWER LEVEL (MWe-net)
1	719	17	<u> </u>
2	707	18	
3	702	19	***
4	687	20	-
5	327	21	
6	_	22	-
7		23	
8.	_	24	-
9		25	-
10	-	26	_
11	<u> </u>	27	
12		28	
13	<u> </u>	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.

UNIT Oconee Unit 2 DATE 9/12/77

DOCKET NO. 50-270 PREPARED BY J. A. Reavis

OPERATING STATUS

1.	REPORTING PERIOD: January	THROUGH	August, 1977	
	GROSS HOURS IN REPORTING PERIOD:	744.00		
2.	CURRENTLY AUTHORIZED POWER LEVEL (M	Wt): 2568 NE	T CAPABILITY	
	(MWe-Net): 860			
3.	POWER LEVEL TO WHICH RESTRICTED (IF	ANY):(MWe-N	et)	·
4.	REASONS FOR RESTRICTION (IF ANY)			
5.	NUMBER OF HOURS THE REACTOR WAS	This Month	Year to Date	Cumulative
	CRITICAL	131.76	3680.43	17907.46
6.	REACTOR RESERVE SHUTDOWN HOURS		_	
7.	HOURS GENERATOR ON-LINE	80.42	3619.89	17385.43
8.	UNIT RESERVE SHUTDOWN HOURS			_
9.	GROSS THERMAL ENERGY GENERATED (MWH)	105199	8969716	41730978
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	31190	3038760	14194366
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	17514	2891656	13475779
12.	REACTOR SERVICE FACTOR	17.71	63.12	68.58
13.	REACTOR AVAILABILITY FACTOR	10.81	62.20	67.01
14.	UNIT SERVICE FACTOR	10.81	62.08	66.58
15.	UNIT AVILABILITY FACTOR	10.81	62.08	66.58
16.	UNIT CAPACITY FACTOR (Using Net	2.74	57.66	60.01
17.	Capability) UNIT CAPACITY FACTOR (Using Design Mwe)	2.65	55.91	58.18
18.	UNIT FORCED OUTAGE RATE	0	2.26	21.52
19.	SHUTDOWNS SCHEDULED OVER NEXT 6 MON	THS (TYPE, DA	ATE & DURATION OF	F EACH:)

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

REACTOR SERVICE FACTOR = HOURS REACTOR WAS CRITICAL x 100 HOURS IN REPORTING PERIOD

REACTOR AVAILABILITY FACTOR = HOURS REACTOR WAS AVAILABLE TO OPERATE X 100 HOURS IN REPORTING PERIOD

UNIT SERVICE FACTOR = HOURS GENERATOR ON LINE HOURS IN REPORTING PERIOD X 1.00

UNIT AVAILABILITY FACTOR = HOURS UNIT WAS AVAILABLE TO GENERATE X 100 HOURS IN REPORTING PERIOD

UNIT CAPACITY FACTOR = NET ELECTRICAL POWER GENERATED [Net Capability or Design (Mwc-Net)] X HOURS IN REPORTING PERIOD

UNIT FORCED OUTAGE RATE = FORCED OUTAGE HOURS HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS X 100

DOCKET NO. <u>50-270</u>

UNIT NAME Oconee Unit 2

DATE $\frac{9-12-77}{}$

UNIT SHUTDOWNS

REPORT MONTH August, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	77-08-0	L S	663.58	A	1	Steam Generator Maintenance
						Control rod drive stator 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)
,						

SUMMARY:

One major outage this month.

DOCKET NO.	50-270	
UNIT	Oconee	Unit 2
DATE	9/12/7	7

AVERAGE DAILY UNIT POWER LEVEL

AVI AY	ERAGE DAILY POWER LEVEL (MWe-net)	DAY AV	'ERAGE DAILY POWER LEV (MWe-net)
1	-	17	<u>-</u>
2	_	18	<u>-</u>
3		19	_
4	· <u> </u>	20	_
5		21	•
6	_	22	
7		23	-
8		24	_
9	<u> </u>	25	
0	-	26	-
1		27	***
2	-	28:	30
3	_	29	301
- 4	_	30	300
5		31	540

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.

UNIT Oconee Unit 3
DATE 9/12/77

DOCKET NO. 50-287
PREPARED BY J. A. Reavis

OPERATING STATUS

1.	REPORTING PERIOD: January	THROUGH	August, 1977	
	GROSS HOURS IN REPORTING PERIOD:	744.00		
2.	CURRENTLY AUTHORIZED POWER LEVEL ((MWt): 2568 N	ET CAPABILITY	
	(MWe-Net): 860			
3.	POWER LEVEL TO WHICH RESTRICTED (1	F ANY): (MWe-1	Net)	
4.	REASONS FOR RESTRICTION (IF ANY)			
5.	NUMBER OF HOURS THE REACTOR WAS	This Month	Year to Date	<u>Cumulative</u>
	CRITICAL	716.21	4886.61	18289.31
6.	REACTOR RESERVE SHUTDOWN HOURS			_
7.	HOURS GENERATOR ON-LINE	708.41	4835.84	17859.34
8.	UNIT RESERVE SHUTDOWN HOURS			_
9.	GROSS THERMAL ENERGY GENERATED (MWH	I) 1729016	11995745	42363962
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	591700	4167840	14607284
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	562746	3974272	13907914
12.	REACTOR SERVICE FACTOR	96.26	83.80	76.98
13.	REACTOR AVAILABILITY FACTOR	95.22	83.02	77.25
14.	UNIT SERVICE FACTOR	95.22	82.93	75.17
15.	UNIT AVILABILITY FACTOR	95.22	82.93	75.17
16.	UNIT CAPACITY FACTOR (Using Net	87.95	79.25	68.07
17.	Capability) UNIT CAPACITY FACTOR (Using Design Mwe)	85.27	76.84	65.99
18.	UNIT FORCED OUTAGE RATE	4.7.8	17.07	14.83
10	CHITDOING CCUEDITIED OVER NEWS (MO		AMD C DUDAMTON	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
Refueling - October 15, 1977

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 = HOURS REACTOR WAS AVAILABLE TO OPERATE X 100

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

UNIT AVAILABILITY FACTOR = HOURS UNIT WAS AVAILABLE TO GENERATE X 100

UNIT CAPACITY FACTOR = NET ELECTRICAL POWER GENERATED X 100
[Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING
PERIOD

UNIT FORCED OUTAGE RATE = FORCED OUTAGE HOURS
HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS X 100

DOCKET NO. <u>50-287</u>

UNIT NAME Oconee Unit 3

DATE 9-12-77

UNIT SHUTDOWNS

REPORT MONTH August, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS	
9	77-08-2) F	35.59	A		Short in stator caused control rodrop into core.	d to
						B-MAINT. OR TEST. 2-M C-REFUELING S D-REGULATORY RESTRICTION 3-A E-OPERATOR TRAINING AND S	THOD IANUAL IANUAL CRAM UTOMATIC CRAM Other

SUMMARY:

No major outage this month.

DOCKET NO. <u>50-287</u>

UNIT <u>Oconee Unit 3</u>

DATE <u>9/12/77</u>

AVERAGE DAILY UNIT POWER LEVEL

Y AV	ERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEY (MWe-net)
	742	17	845
	824	18	850
	837	19	849
	837	20	467
	842	21	-
	849	22	299
	851	23 '	450
	850	24	640
	851	25	678
	847	26	750
	851	27	839
	847	28	842
	848	29	847
	850	30	847
	850	31	851
	849	•	

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.