NRC FORM 195 (2-76)		J.S. NUCLEAN REGULATONY COMM	W 50-269/270/287
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TO:	FROM:		DATE OF DOCUMENT
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	Charlot William	te, North Carolina 1 O. Parker, Jr.	DATE RECEIVED 11/14/77
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DESCRIPTION		ENCLOSURE	
Letter trans the following.		Monthly Report for	October 1977
Teacer arange and retreating.		Plant & Component	Operability & Availability.
		This Report to be	used in preparing Gray Book
		by Plans & Operati	.ons.
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	(1 - P)	(9-P)	
PLANT NAME:			
Oconee Units 1-2-3			L
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NTTO UNO TOD ACTION	FOR AC	TION/INFORMATION	
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DUKE POWER COMPANYLATORY DOCKET FILE COPY

Power Building 422 South Church Street, Charlotte, N. C. 28242

WILLIAM O. PARKER, JR. VICE PRESIDENT STEAM PRODUCTION November 10, 1977

Telephone: Area 704 373-4083

773180126

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, 1977.

Very truly yours,

WAH William O. Parker, Jr.

JAR:ge Attachment

cc: Mr. J. P. O'Reilly

•			UNIT Onee U	Jnit 1	
•		DOCI	DATE $11/10/7$	/	
		PREPA	ARED BY $J. A. Re$	avis	
<u>0P</u> I	ERATING STATUS				
1.	REPORTING PERIOD: October 1	THROUGH Oc	tober 31, 1977		
	GROSS HOURS IN REPORTING PERIOD:	745		<u> </u>	
2.	CURRENTLY AUTHORIZED POWER LEVEL (N	Wt): 2568 N	ET CAPABILITY		
	(MWe-Net): 860				
3.	POWER LEVEL TO WHICH RESTRICTED (II	F ANY):(MWe-1	Net)	·	
4.	REASONS FOR RESTRICTION (IF ANY)				
5.	NUMBER OF HOURS THE REACTOR WAS CRITICAL	This Month 407.2	<u>Year to Date</u> 4,242.6	<u>Cumulative</u> 26,358.4	
6.	REACTOR RESERVE SHUTDOWN HOURS		_	_	
7.	HOURS GENERATOR ON-LINE	327.0	4,104.7	24,068.7	
8.	UNIT RESERVE SHUTDOWN HOURS				
9.	GROSS THERMAL ENERGY GENERATED (MWH)	445,631	9,325,537	55,711,248	
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	123,670	3,189,300	19,312,730	;
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	103,632	3,001,103	18,233,636	
12.	REACTOR SERVICE FACTOR	54.7	58.2	70.0	
13.	REACTOR AVAILABILITY FACTOR	43.9	58.1	66.3	
14.	UNIT SERVICE FACTOR	43.9	56.3	63.9	ţ,
15.	UNIT AVILABILITY FACTOR	43.9	56.3	64.0	•
16.	UNIT CAPACITY FACTOR (Using Net	16.2	47.8	56.3	
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	15.7	46.4	54.6	
18.	UNIT FORCED OUTAGE RATE	2.7	25.8	19.2	
19.	SHUTDOWNS SCHEDULED OVER NEXT 6 MON	NTHS (TYPE, I	DATE & DURATION	OF EACH:)	

None

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

REACTOR SERVICE FACTOR = HOURS REACTOR WAS CRITICAL HOURS IN REPORTING PERIOD X 100
REACTOR AVAILABILITY FACTOR = HOURS REACTOR WAS AVAILABLE TO OPERATE X 100 HOURS IN REPORTING PERIOD X 100
UNIT SERVICE FACTOR = HOURS GENERATOR ON LINE HOURS IN REPORTING PERIOD X 100
UNIT AVAILABILITY FACTOR = HOURS UNIT WAS AVAILABLE TO GENERATE HOURS IN REPORTING PERIOD X 100
UNIT CAPACITY FACTOR = <u>NET ELECTRICAL POWER GENERATED</u> [Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING
UNIT FORCED OUTACE RATE = FORCED OUTAGE HOURS HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS X 100

UNIT SHUTDOWNS

DOCKET NO.	50-269		
UNIT NAME	Oconee Unit 1		
DATE	11/10/77		

REPORT MONTH _____October, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
15	7.7/10/01	. S	87.40	В	4	Continuation of outage for steam generator maintenance.
16	77/10/04	S .	236.60	В	4	Outage continued to correct reactor coolan pump seal leakage.
17	77/10/14	s S	85.05	В	4	Zero power physics testing
18	77/10/18	8 F	8.91	А	3	Loss of "A" feedwater pump caused trip.
						(1) REASON (2) METHOD A-EQUIPMENT FAILURE (EXPLAIN) 1-MANUAL B-MAINT. OR TEST. 2-MANUAL C-REFUELING SCRAM D-REGULATORY RESTRICTION 3-AUTOMATIC E-OPERATOR TRAINING AND SCRAM LICENSE EXAMINATION 4-Other F-ADMINISTRATIVE G-OPERATIONAL ERROR (EXPLAIN) H-OTHER (EXPLAIN)
				i I		I

One major outage this month.

AVERAGE DAILY UNIT POWER LEVEL

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1		17	-
2	<u></u>	18	61
-		10	293
		19	309
4		· 20	
5		21	287
6		22	217
7	-	23	208
		20	212
8		24	
9	·	25	286
10		26	290
11		27	296
12			318
13		20	579
15		29	625
14		30	
15	-	31	627
16			

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

October, 1977

MONTH

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	nit 2
•		DOC	KET NO. $2(-2)$	•
OPE	RATING STATUS	r KEr	ARED BI J. A. Ke	<u>avis</u>
1.	REPORTING PERIOD: October 1	THROUGH	October 31,	1977
	GROSS HOURS IN REPORTING PERIOD:	745		
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	<u>Cumulative</u>
	CRITICAL	265.9	4,372.7	18,599.7
6.	REACTOR RESERVE SHUTDOWN HOURS			
7.	HOURS GENERATOR ON-LINE	248.0	4,264.4	18,029.9
8.	UNIT RESERVE SHUTDOWN HOURS			
9.	GROSS THERMAL ENERGY GENERATED (MW	TH) <u>415,194</u>	10,217,804	42,979,066
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	138,120	3,459,480	14,615,086
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	124,827	3,279,017	13,863,140
12.	REACTOR SERVICE FACTOR	35.7	59.9	67.5
13.	REACTOR AVAILABILITY FACTOR	33.3	58.7	65.8
14.	UNIT SERVICE FACTOR	33.3	58.5	65.4
15.	UNIT AVILABILITY FACTOR	33.3	58.5	65.4
16.	UNIT CAPACITY FACTOR (Using Net	19.5	52.3	58.5
17.	UNIT CAPACITY FACTOR (Using Design Mwe)	18.9	50.7	56.7
L8.	UNIT FORCED OUTAGE RATE	66.7	17.4	23.6

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:) None

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

REACTOR SERVICE FACTOR = HOURS REACTOR WAS CRITICAL X 100 HOURS IN REPORTING PERIOD X 100
REACTOR AVAILABILITY FACTOR = HOURS REACTOR WAS AVAILABLE TO OPERATE HOURS IN REPORTING PERIOD X 100
UNIT SERVICE FACTOR = HOURS GENERATOR ON LINE HOURS IN REPORTING PERIOD X 100
UNIT AVAILABILITY FACTOR = HOURS UNIT WAS AVAILABLE TO GENERATE HOURS IN REPORTING PERIOD X 100
UNIT CAPACITY FACTOR = <u>NET ELECTRICAL POWER GENERATED</u> [Net Capability or Design (Mwe-Net)] X HOURS IN REPORTING
UNIT FORCED OUTACE RATE = FORCED OUTAGE HOURS HOURS GENERATOR ON LINE + FORCED OUTAGE HOURS X 100

UNIT SHUTDOWNS

DOCKET NO. 50-270 UNIT NAME Oconee Unit 2 DATE 11/10/77

REPORT MONTH ____October, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
10	77/10/07	7 F.	497.00	А	1	Shutdown to investigate indicated tube leak in "2B" steam generator.
						(1) REASON (2) METHOD A-EQUIPMENT FAILURE (EXPLAIN) 1-MANUAL B-MAINT. OR TEST. 2-MANUAL C-REFUELING SCRAM D-REGULATORY RESTRICTION 3-AUTOMATIC E-OPERATOR TRAINING AND SCRAM LICENSE EXAMINATION F-ADMINISTRATIVE G-OPERATIONAL ERROR GUID HUND
						(EXPLAIN) H-OTHER (EXPLAIN)

One major outage this month.

DOCKET NO. ______ UNIT ______ 2 DATE ______

AVERAGE DAILY UNIT POWER LEVEL

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	533	17	<u> </u>
2	516	18	
3	501	19	
4	507	20	-
5	510	21	
6	569	22	<u> </u>
7	457	23	<u> </u>
8		24	
9	<u> </u>	25	
10	_	26	
11		27	
12		28	
13	-	29	527
14		30	556
15		31	556
16	-		

DAILY UNIT POWER LEVEL FORM INSTRUCTIONS

October, 1977

ATTI

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.

-	·			
•			UNI Ocone	e Unit 3
			DATE	///
n		DOCK	XET NO. <u>50-28</u>	7
OPF	CRATING STATUS	rker		<u>Reavis</u>
	October 1	in a success 00	tober 31, 1977	
1.	REPORTING PERIOD:	THROUGH		
	GROSS HOURS IN REPORTING PERIOD:	<u> </u>		
2.	CURRENTLY AUTHORIZED POWER LEVEL (M	Wt):2 <u>568</u> Ni	ET CAPABILITY	
	(MWe-Net):860			
3.	POWER LEVEL TO WHICH RESTRICTED (IF	Y ANY):(MWe-1	Net)	
4.	REASONS FOR RESTRICTION (IF ANY) _	This Month	Year to Date	Cumulative
5.	NUMBER OF HOURS THE REACTOR WAS	506.4	6,137.3	19,540.0
6.	REACTOR RESERVE SHUTDOWN HOURS		·	
7.	HOURS GENERATOR ON-LINE	491.0	6,039.5	19,063.0
8.	UNIT RESERVE SHUTDOWN HOURS		_	
9.	GROSS THERMAL ENERGY GENERATED (MWH)	1,111,101	14,850,262	45,218,479
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	382,940	5,154,410	15,593,854
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	361.647	4,910,756	14,844,398
12.	REACTOR SERVICE FACTOR	68.0	84.1	77.5
13.	REACTOR AVAILABILITY FACTOR	67.2	83.0	77.6
14.	UNIT SERVICE FACTOR	65.9	82.8	75.6
15.	UNIT AVAILABILITY FACTOR	65.9	82.8	75.6
16.	UNIT CAPACITY FACTOR (Using Net	56.5	78.3	68.4
17.	Capability) UNIT CAPACITY FACTOR (Using Design Mwe)	54.7	75.9	66.4
18.	UNIT FORCED OUTAGE RATE	1.9	14.4	14.1
19.	SHUTDOWNS SCHEDULED OVER NEXT 6 MOI	NTHS (TYPE,	DATE & DURATION	OF EACH:)
20.	IF SHUTDOWN AT END OF REPORT PERIO	D, ESTIMATED	DATE OF STARTUP	·:
	December 4, 1977			<u>, , , , , , , , , , , , , , , , , , , </u>
	REACTOR SERVICE FACTOR = $\frac{\text{HOUR}}{\text{HOUR}}$	S REACTOR WAS	CRITICAL X 100 PERIOD X 100	
	REACTOR AVAILABILITY FACTOR =	HOURS REACTOR HOURS IN REPO	R WAS AVAILABLE TO DRTING PERIOD	OPERATE X 100
	UNIT SERVICE FACTOR = $\frac{1}{HOUR}$	S GENERATOR ON S IN REPORTING	V LINE X 100	
	UNIT AVAILABILITY FACTOR = $\frac{HO}{HO}$	OURS UNIT WAS A	AVALIABLE TO GENERA ING PERIOD	<u>TE</u> X 100
	UNIT CAPACITY FACTOR = $\frac{\text{NET}}{[\text{Net}]}$	ELECTRICAL POW	vER GENERATED r Design (Mwe-Net)]	X HOURS IN REPORTI
	PEF UNIT FORCED OUTACE RATE = FOF HOU	CED OUTAGE HOU IRS GENERATOR (JRS ON LINE + FORCED OU	TAGE HOURS X 100

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UNIT SHUTDOWNS

DOCKET NO. 50-287 UNIT NAME Oconee Unit 3 DATE 11/10/77

REPORT MONTH October 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
11	77/10/13	} F	9.66	A	3	Indicated loss of DC power to EHC system caused trip.
12	77/10/2	. S	244.38	С	1	Started scheduled refueling outage
	BY.					(1) REASON (2) METHOD AEQUIPMENT FAILURE (EXPLAIN) 1-MANUAL B-MAINT. OR TEST. 2-MANUAL C-REFUELING SCRAM D-REGULATORY RESTRICTION 3-AUTOMATIC E-OPERATOR TRAINING AND SCRAM LICENSE EXAMINATION F-ADMINISTRATIVE G-OPERATIONAL ERROR (EXPLAIN) H-OTHER (EXPLAIN)

Began refueling this month.

DOCKET NO. <u>50-287</u> UNIT <u>Oconee Unit</u> 3 DATE <u>11/10/77</u>

AVERAGE DAILY UNIT POWER LEVEL

MONT	CH October 1977		
DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	825	17	721
2	816	18	721
3	804	19	720
4	791	20	644
5	787	21	503
6	787	22	_
7	786	23	
8	787	24	
9	788	25	
10	787	26	_
11	787	27	_
12	787	28	
13	349	29	·
14	515	30	
15	713	31	
16	721		

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.