

50-269-270-287

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MONTHLY REPORT

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LETTER TRANS THE FOLLOWING:

# ACKNOWLEDGED

**DO NOT REMOVE** (1-P)

**PLANT NAME:**

Oconee Units 1-2-3

RJL

ENCLOSURE

SURE  
MONTHLY REPORT FOR FEBRUARY/1977

PLANT & COMPONENT OPERABILITY &  
AVAILABILITY. THIS REPORT TO BE USED IN  
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

(11-P)

## SAFETY

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NSIC

DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

March 10, 1977

TELEPHONE: AREA 704  
373-4083

REGULATORY DOCKET FILE COPY

Director  
Office of Management Information  
and Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

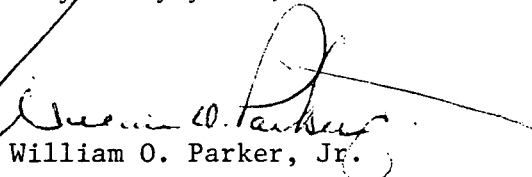
Re: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287

Dear Sir:

Please find attached information concerning the performance and operating status of the Oconee Nuclear Station for the month of February, 1977.

In a review of the data submitted in the December, 1976 Operating Status Report dated January 10, 1977, an error was identified in the monthly gross thermal energy generated. This number should be 564375 instead of the reported number, 568843. Replacement pages which update all numbers in the December, 1976 and January, 1977 Operating Status Reports affected by this change are attached.

Very truly yours,

  
William O. Parker, Jr.

LJB:ge  
Attachment

cc: Mr. Norman C. Moseley



770760152  
2710

Oconee Unit 1  
 DATE 3/10/77  
 DOCKET NO. 50-269  
 PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: February 1 THROUGH February 28, 1977  
 GROSS HOURS IN REPORTING PERIOD: 672.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
 (MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY) \_\_\_\_\_
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL
 

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
508.9	508.9	1014.7	23130.5
6. REACTOR RESERVE SHUTDOWN HOURS
 

	-	-	-
--	---	---	---
7. HOURS GENERATOR ON-LINE
 

	499.4	1000.4	20964.4
--	-------	--------	---------
8. UNIT RESERVE SHUTDOWN HOURS
 

	-	-	-
--	---	---	---
9. GROSS THERMAL ENERGY GENERATED (MWH)
 

	1263147	2544098	48929809
--	---------	---------	----------
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)
 

	439530	876210	16999640
--	--------	--------	----------
11. NET ELECTRICAL ENERGY GENERATED (MWH)
 

	418562	833876	16066409
--	--------	--------	----------
12. REACTOR SERVICE FACTOR
 

	75.7	71.7	72.8
--	------	------	------
13. REACTOR AVAILABILITY FACTOR
 

	74.3	70.7	68.4
--	------	------	------
14. UNIT SERVICE FACTOR
 

	74.3	70.7	66.0
--	------	------	------
15. UNIT AVAILABILITY FACTOR
 

	74.3	70.7	66.1
--	------	------	------
16. UNIT CAPACITY FACTOR (Using Net Capability)
 

	72.4	68.5	58.8
--	------	------	------
17. UNIT CAPACITY FACTOR (Using Design Mwe)
 

	70.2	66.4	57.0
--	------	------	------
18. UNIT FORCED OUTAGE RATE
 

	25.7	29.4	18.4
--	------	------	------
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)  
 Refueling - June 5, 1977 - 6 weeks
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:  
 March 12, 1977

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT FORCED OUTAGE RATE} = \frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$$

DOCKET NO. 50-269UNIT Oconee Unit 1DATE 3/10/77**AVERAGE DAILY UNIT POWER LEVEL**MONTH February, 1977

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	<u>25</u>	17	<u>866</u>
2	<u>-</u>	18	<u>865</u>
3	<u>-</u>	19	<u>865</u>
4	<u>-</u>	20	<u>865</u>
5	<u>-</u>	21	<u>865</u>
6	<u>-</u>	22	<u>864</u>
7	<u>-</u>	23	<u>864</u>
8	<u>490</u>	24	<u>863</u>
9	<u>757</u>	25	<u>855</u>
10	<u>850</u>	26	<u>862</u>
11	<u>863</u>	27	<u>860</u>
12	<u>866</u>	28	<u>715</u>
13	<u>857</u>	29	<u></u>
14	<u>865</u>	30	<u></u>
15	<u>865</u>	31	<u></u>
16	<u>864</u>		

**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 SHUTDOWNS

DOCKET NO. 50-269

UNIT NAME Oconee Unit 1

DATE 3/10/77

REPORT MONTH February, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
3	2/1/77	F	169.49	A	1	Repaired control rod drive closure assembly leak and replaced deteriorated control rod drive mechanism power cables.
4	2/28/77	F	3.20	A	1	Repaired tube leak in "1B" steam generator.
						<div> <div> (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) </div> <div> (2) METHOD  1-MANUAL  2-MANUAL  SCRAM  3-AUTOMATIC  SCRAM  4-Other </div> </div>

## SUMMARY:

One major outage this month.

UNIT Oconee Unit 2  
DATE 3/10/77  
DOCKET NO. 50-270  
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: February 1 THROUGH February 28, 1977  
GROSS HOURS IN REPORTING PERIOD: 672.00
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
(MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net)
4. REASONS FOR RESTRICTION (IF ANY)
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL

	This Month	Year to Date	Cumulative
6. REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7. HOURS GENERATOR ON-LINE	672.0	1416.0	15181.5
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	1718647	3634968	36396230
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	583750	1236740	12392346
11. NET ELECTRICAL ENERGY GENERATED (MWH)	559817	1186177	11770300
12. REACTOR SERVICE FACTOR	100.0	100.0	72.10
13. REACTOR AVAILABILITY FACTOR	100.0	100.0	70.46
14. UNIT SERVICE FACTOR	100.0	100.0	69.97
15. UNIT AVAILABILITY FACTOR	100.0	100.0	69.97
16. UNIT CAPACITY FACTOR (Using Net Capability)	96.87	97.41	63.08
17. UNIT CAPACITY FACTOR (Using Design Mwe)	93.92	94.44	61.16
18. UNIT FORCED OUTAGE RATE	0	0	23.6
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)  
Refueling - July 17, 1977 - 6 weeks
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT FORCED OUTAGE RATE} = \frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$$

DOCKET NO. 50-270UNIT Oconee Unit 2DATE 3/10/77**AVERAGE DAILY UNIT POWER LEVEL**MONTH February, 1977

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	842	17	830
2	841	18	832
3	838	19	832
4	841	20	833
5	840	21	832
6	832	22	832
7	829	23	832
8	834	24	834
9	836	25	832
10	832	26	833
11	831	27	835
12	831	28	834
13	825	29	
14	820	30	
15	832	31	
16	833		

**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 SHUTDOWNS

DOCKET NO. 50-270

UNIT NAME Oconee Unit 2

DATE 3/10/77

REPORT MONTH February, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
						<div> <div> (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) </div> <div> (2) METHOD  1-MANUAL  2-MANUAL    SCRAM  3-AUTOMATIC    SCRAM  4-Other </div> </div>

## SUMMARY:

No outages this month.



UNIT Oconee Unit 3  
DATE 3/10/77  
DOCKET NO. 50-287  
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: February 1 THROUGH February 28, 1977  
GROSS HOURS IN REPORTING PERIOD: 672
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
(MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY) \_\_\_\_\_
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
6. REACTOR RESERVE SHUTDOWN HOURS	-	-	-
7. HOURS GENERATOR ON-LINE	413.18	1157.18	14180.68
8. UNIT RESERVE SHUTDOWN HOURS	-	-	-
9. GROSS THERMAL ENERGY GENERATED (MWH)	992848	2933438	33301655
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	347230	1020520	11459964
11. NET ELECTRICAL ENERGY GENERATED (MWH)	329121	975587	10909229
12. REACTOR SERVICE FACTOR	63.0	82.4	75.3
13. REACTOR AVAILABILITY FACTOR	61.5	81.7	75.8
14. UNIT SERVICE FACTOR	61.5	81.7	73.3
15. UNIT AVAILABILITY FACTOR	61.5	81.7	73.3
16. UNIT CAPACITY FACTOR (Using Net Capability)	57.0	80.1	65.6
17. UNIT CAPACITY FACTOR (Using Design Mwe)	55.2	77.7	63.6
18. UNIT FORCED OUTAGE RATE	38.5	18.3	14.3
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT FORCED OUTAGE RATE} = \frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$$

DOCKET NO. 50-287UNIT Oconee Unit 3DATE 3/10/77**AVERAGE DAILY UNIT POWER LEVEL**MONTH February, 1977

DAY	AVERAGE DAILY POWER LEVEL (MWe-net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-net)
1	869	17	-
2	868	18	-
3	869	19	-
4	867	20	-
5	867	21	-
6	871	22	-
7	874	23	77
8	873	24	392
9	871	25	-
10	872	26	142
11	871	27	724
12	871	28	849
13	862	29	
14	308	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 SHUTDOWNS

DOCKET NO. 50-287

UNIT NAME Oconee Unit 3

DATE 3/10/77

REPORT MONTH February, 1977

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
1	2/14/77	F	222.44	A	1	Repaired tube leak in "3B" steam generator.
2	2/24/77	F	36.38	D	1	Pursuant to Oconee Technical Specification 3.1.5.4, corrected high chloride concentration in reactor coolant system.
						<div> <div> (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) </div> <div> (2) METHOD  1-MANUAL  2-MANUAL  SCRAM  3-AUTOMATIC  SCRAM  4-Other </div> </div>

## SUMMARY:

One major outage this month.

DATE 3/10/77

DOCKET NO. 50-270

PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: January 1 THROUGH January 31, 1977  
GROSS HOURS IN REPORTING PERIOD: 744.0
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2568 NET CAPABILITY  
(MWe-Net): 860
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): (MWe-Net) \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY) \_\_\_\_\_
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL
 

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>744.0</u>	<u>744.0</u>	<u>14971.0</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>744.0</u>	<u>744.0</u>	<u>14509.54</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1916321</u>	<u>1916321</u>	<u>34677583*</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>652990</u>	<u>652990</u>	<u>11808696</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>626360</u>	<u>626360</u>	<u>11210483</u>
12. REACTOR SERVICE FACTOR	<u>100.0</u>	<u>100.0</u>	<u>71.2</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>100.0</u>	<u>69.5</u>
14. UNIT SERVICE FACTOR	<u>100.0</u>	<u>100.0</u>	<u>69.0</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0</u>	<u>100.0</u>	<u>69.0</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>97.9</u>	<u>97.9</u>	<u>62.0</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>94.9</u>	<u>94.9</u>	<u>60.1</u>
18. UNIT FORCED OUTAGE RATE	<u>0</u>	<u>0</u>	<u>24.4</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)  
Refueling - July 17, 1977 - 6 weeks
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT FORCED OUTAGE RATE} = \frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$$

\* CORRECTED COPY

UNIT Oconee Unit 2  
DATE 3/10/77  
DOCKET NO. 50-270  
PREPARED BY L. J. Bare

OPERATING STATUS

1. REPORTING PERIOD: December 1 THROUGH December 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) \_\_\_\_\_
4. REASONS FOR RESTRICTION (IF ANY) \_\_\_\_\_
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL
 

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>256.2</u>	<u>5668.0</u>	<u>14227.0</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>238.1</u>	<u>5486.1</u>	<u>13765.5</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>564375*</u>	<u>13088834*</u>	<u>32761262*</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>188470</u>	<u>4455050</u>	<u>11155606</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>175677</u>	<u>4228972</u>	<u>10584123</u>
12. REACTOR SERVICE FACTOR	<u>34.4</u>	<u>64.5</u>	<u>70.2</u>
13. REACTOR AVAILABILITY FACTOR	<u>32.0</u>	<u>62.8</u>	<u>68.4</u>
14. UNIT SERVICE FACTOR	<u>32.0</u>	<u>62.5</u>	<u>67.9</u>
15. UNIT AVAILABILITY FACTOR	<u>32.0</u>	<u>62.5</u>	<u>67.9</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>27.1</u>	<u>55.3</u>	<u>59.9</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>26.6</u>	<u>54.3</u>	<u>58.8</u>
18. UNIT FORCED OUTAGE RATE	<u>68.0</u>	<u>25.9</u>	<u>25.4</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE & DURATION OF EACH:)
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

$$\text{REACTOR SERVICE FACTOR} = \frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

$$\text{REACTOR AVAILABILITY FACTOR} = \frac{\text{HOURS REACTOR WAS AVAILABLE TO OPERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT AVAILABILITY FACTOR} = \frac{\text{HOURS UNIT WAS AVAILABLE TO GENERATE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$$

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

$$\text{UNIT FORCED OUTAGE RATE} = \frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$$