

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER
MONTHLY REPORT

TO:
N. R. G.

FROM:
Duke Power Company
Charlotte, North Carolina
William O. Parker, Jr.

DATE OF DOCUMENT
3/10/77

DATE RECEIVED
3/14/77

LETTER NOTORIZED
 ORIGINAL UNCLASSIFIED
 COPY

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED
One

DESCRIPTION
LETTER TRANS THE FOLLOWING:

DO NOT REMOVE
ACKNOWLEDGED

(1-P)

PLANT NAME:
Oconee Units 1-2-3

RJL

ENCLOSURE
MONTHLY REPORT FOR FEBRUARY/1977
PLANT & COMPONENT OPERABILITY &
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

(11-P)

SAFETY

FOR ACTION/INFORMATION

ENVIRO

MIPC			
W/4 CYS FOR ACTION			

INTERNAL DISTRIBUTION

REG FILE			
MRC PDR			
MCDONALD			
S. CHAPMAN			
BRANCH CHIEF(L)			
LIC. ASST. (L)			

*Schwencary
Shppard*

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LDR: <i>Walton, SC</i>			
TIC			
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

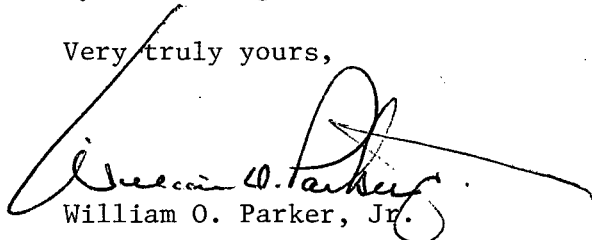
Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

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



770760/52
2710

UNIT 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) _____

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>508.9</u>	<u>1014.7</u>	<u>23130.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>499.4</u>	<u>1000.4</u>	<u>20964.4</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1263147</u>	<u>2544098</u>	<u>48929809</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>439530</u>	<u>876210</u>	<u>16999640</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>418562</u>	<u>833876</u>	<u>16066409</u>
12. REACTOR SERVICE FACTOR	<u>75.7</u>	<u>71.7</u>	<u>72.8</u>
13. REACTOR AVAILABILITY FACTOR	<u>74.3</u>	<u>70.7</u>	<u>68.4</u>
14. UNIT SERVICE FACTOR	<u>74.3</u>	<u>70.7</u>	<u>66.0</u>
15. UNIT AVAILABILITY FACTOR	<u>74.3</u>	<u>70.7</u>	<u>66.1</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>72.4</u>	<u>68.5</u>	<u>58.8</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>70.2</u>	<u>66.4</u>	<u>57.0</u>
18. UNIT FORCED OUTAGE RATE	<u>25.7</u>	<u>29.4</u>	<u>18.4</u>

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. 50-269

UNIT Oconee Unit 1

DATE 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.

(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
4-Other

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
6. REACTOR RESERVE SHUTDOWN HOURS
7. HOURS GENERATOR ON-LINE
8. UNIT RESERVE SHUTDOWN HOURS
9. GROSS THERMAL ENERGY GENERATED (MWH)
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)
11. NET ELECTRICAL ENERGY GENERATED (MWH)
12. REACTOR SERVICE FACTOR
13. REACTOR AVAILABILITY FACTOR
14. UNIT SERVICE FACTOR
15. UNIT AVAILABILITY FACTOR
16. UNIT CAPACITY FACTOR (Using Net Capability)
17. UNIT CAPACITY FACTOR (Using Design Mwe)
18. UNIT FORCED OUTAGE RATE
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:

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	<u>672.0</u>	<u>1416.0</u>	<u>15643.0</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
7. HOURS GENERATOR ON-LINE	<u>672.0</u>	<u>1416.0</u>	<u>15181.5</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>-</u>	<u>-</u>	<u>-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>1718647</u>	<u>3634968</u>	<u>36396230</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>583750</u>	<u>1236740</u>	<u>12392346</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>559817</u>	<u>1186177</u>	<u>11770300</u>
12. REACTOR SERVICE FACTOR	<u>100.0</u>	<u>100.0</u>	<u>72.10</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0</u>	<u>100.0</u>	<u>70.46</u>
14. UNIT SERVICE FACTOR	<u>100.0</u>	<u>100.0</u>	<u>69.97</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0</u>	<u>100.0</u>	<u>69.97</u>
16. UNIT CAPACITY FACTOR (Using Net Capability)	<u>96.87</u>	<u>97.41</u>	<u>63.08</u>
17. UNIT CAPACITY FACTOR (Using Design Mwe)	<u>93.92</u>	<u>94.44</u>	<u>61.16</u>
18. UNIT FORCED OUTAGE RATE	<u>0</u>	<u>0</u>	<u>23.6</u>

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

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

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

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

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

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

DOCKET NO. 50-270

UNIT Oconee Unit 2

DATE 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 style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>(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)</p> </div> <div style="width: 45%;"> <p>(2) METHOD 1-MANUAL 2-MANUAL SCRAM 3-AUTOMATIC SCRAM 4-Other</p> </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) _____

	<u>This Month</u>	<u>Year to Date</u>	<u>Cumulative</u>
5. NUMBER OF HOURS THE REACTOR WAS CRITICAL	423.3	1167.3	14570.02
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. 50-287

UNIT Oconee Unit 3

DATE 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.
<p>(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)</p>						<p>(2) METHOD 1-MANUAL 2-MANUAL SCRAM 3-AUTOMATIC SCRAM 4-Other</p>

SUMMARY:

One major outage this month.

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
6. REACTOR RESERVE SHUTDOWN HOURS
7. HOURS GENERATOR ON-LINE
8. UNIT RESERVE SHUTDOWN HOURS
9. GROSS THERMAL ENERGY GENERATED (MWH)
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)
11. NET ELECTRICAL ENERGY GENERATED (MWH)
12. REACTOR SERVICE FACTOR
13. REACTOR AVAILABILITY FACTOR
14. UNIT SERVICE FACTOR
15. UNIT AVAILABILITY FACTOR
16. UNIT CAPACITY FACTOR (Using Net Capability)
17. UNIT CAPACITY FACTOR (Using Design Mwe)
18. UNIT FORCED OUTAGE RATE
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:

	<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>

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

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

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

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

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

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

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

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

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

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

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

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

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

RECEIVED DOCUMENT
PROCESSING UNIT

1977 MAR 15 PM 9 37

18