

50-250/251

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FROM:

Florida Power & Light Company
Miami, Florida
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MONTHLY REPORT

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DESCRIPTION

Letter trans the following:

PLANT NAME:
Turkey Point Units 3 & 4
St. Lucie Unit 1
RJL 11/14/77

(1-P)

ENCLOSURE

Monthly Report for October 1977
Plant & Component Operability & Availability.
This Report to be used in preparing Gray Book
by Plans & Operations.

(9-P)

1 ENCL.

FOR ACTION/INFORMATION

MPC W/2 CYS FOR ACTION

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773180103

REGULATORY DOCKET FILE COPY



FLORIDA POWER & LIGHT COMPANY

November 5, 1977

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



Gentlemen:

Attached are the October, 1977, Operating Status Reports for
Turkey Point Unit Nos. 3 and 4 and St. Lucie Unit No. 1.

Very truly yours,

A. D. Schmidt
Vice President
Power Resources

VTC/DDC

cc: Mr. James P. O'Reilly
Robert Lowenstein, Esquire

773180103



APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 250

UNIT Turkey Point
Unit No. 3

DATE Nov. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH OCTOBER, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>593</u>
2	<u>629</u>
3	<u>636</u>
4	<u>639</u>
5	<u>639</u>
6	<u>635</u>
7	<u>636</u>
8	<u>637</u>
9	<u>639</u>
10	<u>637</u>
11	<u>632</u>
12	<u>573</u>
13	<u>624</u>
14	<u>625</u>
15	<u>625</u>
16	<u>624</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>622</u>
18	<u>623</u>
19	<u>618</u>
20	<u>621</u>
21	<u>620</u>
22	<u>620</u>
23	<u>622</u>
24	<u>618</u>
25	<u>615</u>
26	<u>615</u>
27	<u>615</u>
28	<u>610</u>
29	<u>615</u>
30	<u>632</u>
31	<u>633</u>

OPERATING DATA REPORT

DOCKET NO. 50-250
 DATE Nov. 5, 1977
 COMPLETED BY V.T. Chilson
 TELEPHONE (305) 552-3824

OPERATING STATUS

1. Unit Name: Turkey Point Unit No. 3
2. Reporting Period: October, 1977
3. Licensed Thermal Power (MWt): 2200
4. Nameplate Rating (Gross MWe): 760
5. Design Electrical Rating (Net MWe): 693
6. Maximum Dependable Capacity (Gross MWe): 700
7. Maximum Dependable Capacity (Net MWe): 666
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>745.0</u>	<u>7 296.0</u>	<u>43 017.6</u>
12. Number Of Hours Reactor Was Critical	<u>744.3</u>	<u>6 633.0</u>	<u>34 673.1</u>
13. Reactor Reserve Shutdown Hours	<u>-0-</u>	<u>43.7</u>	<u>111.1</u>
14. Hours Generator On-Line	<u>743.8</u>	<u>6 495.0</u>	<u>33 534.1</u>
15. Unit Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>85.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1 628 892</u>	<u>13 960 533</u>	<u>65 690 121</u>
17. Gross Electrical Energy Generated (MWH)	<u>489 515</u>	<u>4 386 811</u>	<u>20 957 262</u>
18. Net Electrical Energy Generated (MWH)	<u>464 396</u>	<u>4 163 971</u>	<u>19 839 906</u>
19. Unit Service Factor	<u>99.8</u>	<u>89.0</u>	<u>77.9</u>
20. Unit Availability Factor	<u>99.8</u>	<u>89.0</u>	<u>78.1</u>
21. Unit Capacity Factor (Using MDC Net)	<u>93.6</u>	<u>85.7</u>	<u>70.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>89.9</u>	<u>82.4</u>	<u>66.5</u>
23. Unit Forced Outage Rate	<u>0.2</u>	<u>2.6</u>	<u>2.9</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Refueling, maintenance and inspections - Nov. 19, 1977 - Jan. 16, 1978

25. If Shut Down At End Of Report Period, Estimated Date of Startup:

26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

.) 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)

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER, 1977DOCKET NO. 50 - 250Turkey PointUNIT NAME Unit No. 3DATE Nov. 5, 1977COMPLETED BY V. T. ChilsonTELEPHONE (305) 552 - 3824

.) METHOD

- 1: MANUAL
 2: MANUAL SCRAM
 3: AUTOMATIC SCRAM
 4: OTHER (EXPLAIN)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
25	77-10-12	F	1.2	A	3	Unit trip caused by malfunction of the generator voltage regulator. Corrective actions included repairing a faulty component in the voltage regulator control system. (Non-nuclear system)

SUMMARY: Unit No. 3 operated at approximately 100% R.P., except for outage on September 12, 1977.



APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 251
Turkey Point
UNIT Unit No. 4

DATE Nov. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH OCTOBER, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>658</u>
2	<u>657</u>
3	<u>652</u>
4	<u>655</u>
5	<u>672</u>
6	<u>675</u>
7	<u>673</u>
8	<u>674</u>
9	<u>670</u>
10	<u>664</u>
11	<u>658</u>
12	<u>658</u>
13	<u>657</u>
14	<u>670</u>
15	<u>674</u>
16	<u>670</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>668</u>
18	<u>671</u>
19	<u>665</u>
20	<u>665</u>
21	<u>665</u>
22	<u>666</u>
23	<u>672</u>
24	<u>625</u>
25	<u>647</u>
26	<u>648</u>
27	<u>647</u>
28	<u>269</u>
29	<u>---</u>
30	<u>---</u>
31	<u>---</u>

NOTE: Average daily power
greater than 666 MWe
due to cooler condenser
cooling water.

OPERATING DATA REPORT

DOCKET NO. 50-251
 DATE Nov. 5, 1977
 COMPLETED BY V.T. Chilson
 TELEPHONE (305) 552-3824

OPERATING STATUS

1. Unit Name: Turkey Point Unit No. 4
2. Reporting Period: October, 1977
3. Licensed Thermal Power (MWt): 2200
4. Nameplate Rating (Gross MWe): 760
5. Design Electrical Rating (Net MWe): 693
6. Maximum Dependable Capacity (Gross MWe): 700
7. Maximum Dependable Capacity (Net MWe): 666
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745.0	7 296.0	36 745.0
12. Number Of Hours Reactor Was Critical	659.3	4 553.3	26 275.0
13. Reactor Reserve Shutdown Hours	-0-	-0-	138.8
14. Hours Generator On-Line	659.0	4 405.2	24 947.2
15. Unit Reserve Shutdown Hours	-0-	-0-	-0-
16. Gross Thermal Energy Generated (MWH)	1 443 071	9 495 905	52 555 275
17. Gross Electrical Energy Generated (MWH)	457 595	3 049 807	17 007 490
18. Net Electrical Energy Generated (MWH)	435 282	2 890 520	16 120 986
19. Unit Service Factor	88.5	60.4	67.9
20. Unit Availability Factor	88.5	60.4	67.9
21. Unit Capacity Factor (Using MDC Net)	87.7	59.5	66.5
22. Unit Capacity Factor (Using DER Net)	84.3	57.2	63.3
23. Unit Forced Outage Rate	-0-	2.4	3.4
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down At End Of Report Period, Estimated Date of Startup: Nov. 11, 1977

26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast	Achieved

- .) 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)

APPENDIX D
 UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER. 1977

DOCKET NO. 50 - 251
 UNIT NAME Turkey Point
Unit No. 4
 DATE Nov. 5, 1977
 COMPLETED BY V. T. Chilson
 TELEPHONE (305) 552-3824

-) METHOD
 1: MANUAL
 2: MANUAL SCRAM
 3: AUTOMATIC SCRAM
 4: OTHER (EXPLAIN)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
16	77-10-28	S	86.0	A	1	Unit was removed from service to locate and repair tube leak in steam generator No. 4B. Corrective actions included plugging one leaking tube. (Nuclear system)

SUMMARY: Unit No. 4 operated at approximately 100% R.P. until October 28, 1977, when the unit was removed from service to repair steam generator No. 4B tube leak.

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 335

St. Lucie

UNIT Unit No. 1

DATE Nov. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH OCTOBER, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	----
2	----
3	----
4	----
5	----
6	----
7	----
8	----
9	----
10	232
11	740
12	773
13	785
14	787
15	789
16	789

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	789
18	791
19	791
20	779
21	763
22	792
23	793
24	770
25	790
26	790
27	776
28	652
29	666
30	754
31	686

NOTE: Average daily power
greater than 777 MWe
due to cooler condenser
cooling water.

OPERATING DATA REPORT

DOCKET NO. 50-335
 DATE Nov. 5, 1977
 COMPLETED BY V. T. Chilson
 TELEPHONE (305) 552-3824

OPERATING STATUS

1. Unit Name: St. Lucie Unit No. 1
2. Reporting Period: October, 1977
3. Licensed Thermal Power (MWt): 2560
4. Nameplate Rating (Gross MWe): 850
5. Design Electrical Rating (Net MWe): 802
6. Maximum Dependable Capacity (Gross MWe): 822
7. Maximum Dependable Capacity (Net MWe): 777
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

Notes

9. Power Level To Which Restricted, If Any (Net MWe): NONE
10. Reasons For Restrictions, If Any:

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>745.0</u>	<u>7 296.0</u>	<u>7 560.0</u>
12. Number Of Hours Reactor Was Critical	<u>523.3</u>	<u>6 182.5</u>	<u>6 446.5</u>
13. Reactor Reserve Shutdown Hours	<u>-0-</u>	<u>101.5</u>	<u>101.5</u>
14. Hours Generator On-Line	<u>517.0</u>	<u>5 968.1</u>	<u>6 232.1</u>
15. Unit Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
16. Gross Thermal Energy Generated (MWH)	<u>1 270 278</u>	<u>13 895 427</u>	<u>14 243 030</u>
17. Gross Electrical Energy Generated (MWH)	<u>414 610</u>	<u>4 502 280</u>	<u>4 610 550</u>
18. Net Electrical Energy Generated (MWH)	<u>390 160</u>	<u>4 223 721</u>	<u>4 322 696</u>
19. Unit Service Factor	<u>69.4</u>	<u>81.8</u>	<u>82.4</u>
20. Unit Availability Factor	<u>69.4</u>	<u>81.8</u>	<u>82.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>67.4</u>	<u>74.5</u>	<u>73.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>65.3</u>	<u>72.2</u>	<u>71.3</u>
23. Unit Forced Outage Rate	<u>-0-</u>	<u>12.3</u>	<u>11.9</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refueling, maintenance, and inspections - March 15 - June 6, 1978

25. If Shut Down At End Of Report Period, Estimated Date of Startup:

26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

-) 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)

APPENDIX D
 UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH OCTOBER, 1977

DOCKET NO. 50 - 335
St. Lucie
 UNIT NAME Unit No. 1
 DATE Nov. 5, 1977
 COMPLETED BY V. T. Chilson
 TELEPHONE (305) 552-3824

-) METHOD
 1: MANUAL
 2: MANUAL SCRAM
 3: AUTOMATIC SCRAM
 4: OTHER (EXPLAIN)

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
33	77-09-24	S	228.0	B	4	Unit was removed from service to perform preliminary warranty inspection. (Continued from previous month) (Nuclear and non-nuclear systems)

SUMMARY: Unit was returned to service on October 10, 1977, following completion of scheduled outage to perform preliminary warranty inspection.