

50-25P/251/835

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MONTHLY REPORT

TO:
N. R. G.

FROM:
Florida Power & Light Company
Miami, Florida
A. D. Schmidt

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12/03/77

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DESCRIPTION

Letter trans the following:

(1-P)

PLANT NAME: Turkey Point Units 3 & 4
St. Lucie Unit No. 1
RJL 12/13/77

ENCLOSURE

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

(9-P)

1 ENCL

FOR ACTION/INFORMATION

MPEC W/2-CYS FOR ACTION

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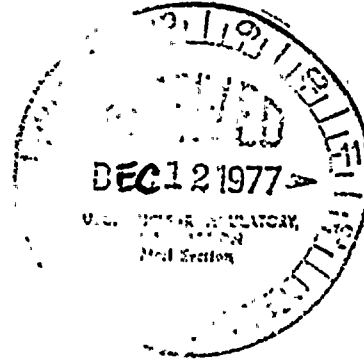
CONTROL NUMBER

MR
773470024

REGULATORY DOCKET FILE COPY



December 3, 1977



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

Gentlemen:

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

Very truly yours,

A. D. Schmidt
A. D. Schmidt
Vice President
Power Resources

VTC/DDC

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

773470024

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 250
Turkey Point
UNIT Unit No. 3

DATE Dec. 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH NOVEMBER, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>635</u>
2	<u>633</u>
3	<u>630</u>
4	<u>628</u>
5	<u>628</u>
6	<u>630</u>
7	<u>632</u>
8	<u>615</u>
9	<u>264</u>
10	<u>258</u>
11	<u>305</u>
12	<u>423</u>
13	<u>655</u>
14	<u>652</u>
15	<u>643</u>
16	<u>643</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>634</u>
18	<u>628</u>
19	<u>568</u>
20	<u>556</u>
21	<u>557</u>
22	<u>552</u>
23	<u>518</u>
24	<u>---</u>
25	<u>---</u>
26	<u>---</u>
27	<u>---</u>
28	<u>---</u>
29	<u>---</u>
30	<u>---</u>

OPERATING DATA REPORT

DOCKET NO. 50 - 250
 DATE Dec. 3, 1977
 COMPLETED BY V.T. Chilson
 TELEPHONE (305) 552-3824

OPERATING STATUS

1. Unit Name: Turkey Point Unit No. 3
2. Reporting Period: November, 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>720.0</u>	<u>8 016.0</u>	<u>43 737.6</u>
12. Number Of Hours Reactor Was Critical	<u>552.7</u>	<u>7 185.8</u>	<u>35 225.9</u>
13. Reactor Reserve Shutdown Hours	<u>-0-</u>	<u>43.7</u>	<u>111.1</u>
14. Hours Generator On-Line	<u>552.2</u>	<u>7 047.3</u>	<u>34 086.4</u>
15. Unit Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>85.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1 084 071</u>	<u>15 044 604</u>	<u>66 774 192</u>
17. Gross Electrical Energy Generated (MWH)	<u>327 083</u>	<u>4 713 894</u>	<u>21 284 345</u>
18. Net Electrical Energy Generated (MWH)	<u>308 409</u>	<u>4 472 380</u>	<u>20 148 315</u>
19. Unit Service Factor	<u>76.7</u>	<u>87.9</u>	<u>77.9</u>
20. Unit Availability Factor	<u>76.7</u>	<u>87.9</u>	<u>78.1</u>
21. Unit Capacity Factor (Using MDC Net)	<u>64.3</u>	<u>83.8</u>	<u>69.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>61.8</u>	<u>80.5</u>	<u>66.5</u>
23. Unit Forced Outage Rate	<u>-0-</u>	<u>2.4</u>	<u>2.8</u>
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: Jan. 16, 1978
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



- (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)

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER, 1977

DOCKET NO. 50 - 250
 UNIT NAME Turkey Point
Unit No. 3
 DATE Dec. 3, 1977
 COMPLETED BY V. T. Chilson
 TELEPHONE (305) 552-3824

- (2) 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
26	77-11-08	F	-0-	A	4	Load was reduced to locate and repair condenser tube leak. (Non-nuclear system)
27	77-11-19	S	-0-	F	4	Load was reduced to approximately 90% R.P. for extended operation of core cycle IV. (Nuclear System)
28	77-11-23	S	167.8	C	1	Unit No. 3 was removed from service for scheduled refueling, maintenance, and inspections. (Nuclear and non-nuclear systems)

SUMMARY: Unit No. 3 operated at approximately 100% R.P. until the unit was removed from service on Nov. 23, 1977, for scheduled refueling, maintenance, and inspections, except for load reductions of Nov. 8-12 and Nov. 19-23, 1977.

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 251

UNIT Turkey Point
Unit No. 4

DATE Dec. 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH NOVEMBER, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	---
2	---
3	---
4	---
5	---
6	---
7	---
8	---
9	---
10	---
11	---
12	627
13	677
14	679
15	682
16	676

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	674
18	665
19	672
20	676
21	677
22	676
23	673
24	676
25	684
26	685
27	687
28	688
29	683
30	642
31	

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

OPERATING DATA REPORT

DOCKET NO. 50 - 251
 DATE Dec. 3, 1977
 COMPLETED BY V.T. Chilson
 TELEPHONE (305) 552-3824

OPERATING STATUS

1. Unit Name: Turkey Point Unit No. 4
2. Reporting Period: November, 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>720.0</u>	<u>8 016.0</u>	<u>37 465.0</u>
12. Number Of Hours Reactor Was Critical	<u>462.3</u>	<u>5 015.6</u>	<u>26 737.3</u>
13. Reactor Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>138.8</u>
14. Hours Generator On-Line	<u>456.4</u>	<u>4 861.6</u>	<u>25 403.7</u>
15. Unit Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
16. Gross Thermal Energy Generated (MWH)	<u>997 179</u>	<u>10 493 084</u>	<u>53 552 454</u>
17. Gross Electrical Energy Generated (MWH)	<u>322 285</u>	<u>3 372 092</u>	<u>17 329 775</u>
18. Net Electrical Energy Generated (MWH)	<u>305 473</u>	<u>3 195 993</u>	<u>16 426 459</u>
19. Unit Service Factor	<u>63.4</u>	<u>60.6</u>	<u>67.8</u>
20. Unit Availability Factor	<u>63.4</u>	<u>60.6</u>	<u>67.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>63.7</u>	<u>59.9</u>	<u>66.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>61.2</u>	<u>57.5</u>	<u>63.3</u>
23. Unit Forced Outage Rate	<u>0.4</u>	<u>2.3</u>	<u>3.3</u>
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:

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

	Forecast	Achieved
INITIAL CRITICALITY	<u> </u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>

(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)

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER, 1977

DOCKET NO. 50 - 251
UNIT NAME Turkey Point
Unit No. 4
DATE Dec. 3, 1977
COMPLETED BY V. T. Chilson
TELEPHONE (305) 552-3824

(2) 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	261.5	A	4	Unit was removed from service to locate and repair tube leak in steam generator No. 4B. Corrective actions included plugging one leaking tube. (Continued from previous month) (Nuclear system) Outage was extended to repair a failed mechanical seal on a reactor coolant pump. (Nuclear system)
17	77-11-11	F	2.0	A	3	Unit tripped by steam generator No. 4C level protection system when feedwater isolation valve failed to open as required. Corrective actions included repairing faulty auto-manual disengaging system on valve motor. (Non-nuclear system)

SUMMARY: Unit No. 4 operated at approximately 100% R.P. after the unit was returned to service on November 11, 1977.

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 335
St. Lucie
UNIT Unit No. 1

DATE Dec. 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH NOVEMBER, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>684</u>
2	<u>668</u>
3	<u>721</u>
4	<u>785</u>
5	<u>775</u>
6	<u>781</u>
7	<u>772</u>
8	<u>783</u>
9	<u>779</u>
10	<u>760</u>
11	<u>789</u>
12	<u>781</u>
13	<u>795</u>
14	<u>795</u>
15	<u>794</u>
16	<u>794</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>723</u>
18	<u>626</u>
19	<u>751</u>
20	<u>779</u>
21	<u>746</u>
22	<u>537</u>
23	<u>786</u>
24	<u>773</u>
25	<u>792</u>
26	<u>794</u>
27	<u>797</u>
28	<u>794</u>
29	<u>772</u>
30	<u>793</u>
31	<u></u>

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



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OPERATING DATA REPORT

DOCKET NO. 50 - 335
 DATE Dec. 3, 1977
 COMPLETED BY V. T. Chilson
 TELEPHONE (305) 552-3824

OPERATING STATUS

1. Unit Name: St. Lucie Unit No. 1
2. Reporting Period: November, 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>720.0</u>	<u>8 016.0</u>	<u>8 280.0</u>
12. Number Of Hours Reactor Was Critical	<u>717.9</u>	<u>6 900.4</u>	<u>7 164.4</u>
13. Reactor Reserve Shutdown Hours	<u>-0-</u>	<u>101.5</u>	<u>101.5</u>
14. Hours Generator On-Line	<u>716.1</u>	<u>6 684.2</u>	<u>6 948.2</u>
15. Unit Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
16. Gross Thermal Energy Generated (MWH)	<u>1 764 776</u>	<u>15 660 203</u>	<u>16 007 806</u>
17. Gross Electrical Energy Generated (MWH)	<u>576 870</u>	<u>5 079 150</u>	<u>5 187 420</u>
18. Net Electrical Energy Generated (MWH)	<u>545 221</u>	<u>4 768 942</u>	<u>4 867 917</u>
19. Unit Service Factor	<u>99.5</u>	<u>83.4</u>	<u>83.9</u>
20. Unit Availability Factor	<u>99.5</u>	<u>83.4</u>	<u>83.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.5</u>	<u>76.6</u>	<u>75.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>94.4</u>	<u>74.2</u>	<u>73.3</u>
23. Unit Forced Outage Rate	<u>0.6</u>	<u>11.2</u>	<u>10.8</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	<u> </u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>



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- (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 (EXPLAIN)

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH NOVEMBER, 1977

DOCKET NO. 50 - 335
 UNIT NAME St. Lucie
Unit No. 1
 DATE Dec. 3, 1977
 COMPLETED BY V. T. Chilson
 TELEPHONE (305) 552-3824

NO.	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON(1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER(2)	CORRECTIVE ACTIONS/COMMENTS
34	77-11-17	S	-0-	B	4	Load was reduced to clean steam generator feedwater pump suction strainers. (Non-nuclear system)
35	77-11-22	F	3.9	H	3	Unit tripped during a transient condition caused by the loss of a steam generator feedwater pump. The pump tripped when a relay in the steam generator feedwater pump flow protection was inadvertently actuated. (Non-nuclear System)

SUMMARY: Unit operated at approximately 100% R.P. except for load reduction of Nov. 17 and outage of Nov. 22, 1977.

