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TO:  
N. R. C.

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

FILE NUMBER  
MONTHLY REPORT  
DATE OF DOCUMENT  
11/5/77  
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DESCRIPTION

Letter trans the following:

ENCLOSURE

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

(1-P)

(9-P)

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

*1 ENCL\**

FOR ACTION/INFORMATION

MIFC W/2 CYS FOR ACTION

INTERNAL DISTRIBUTION

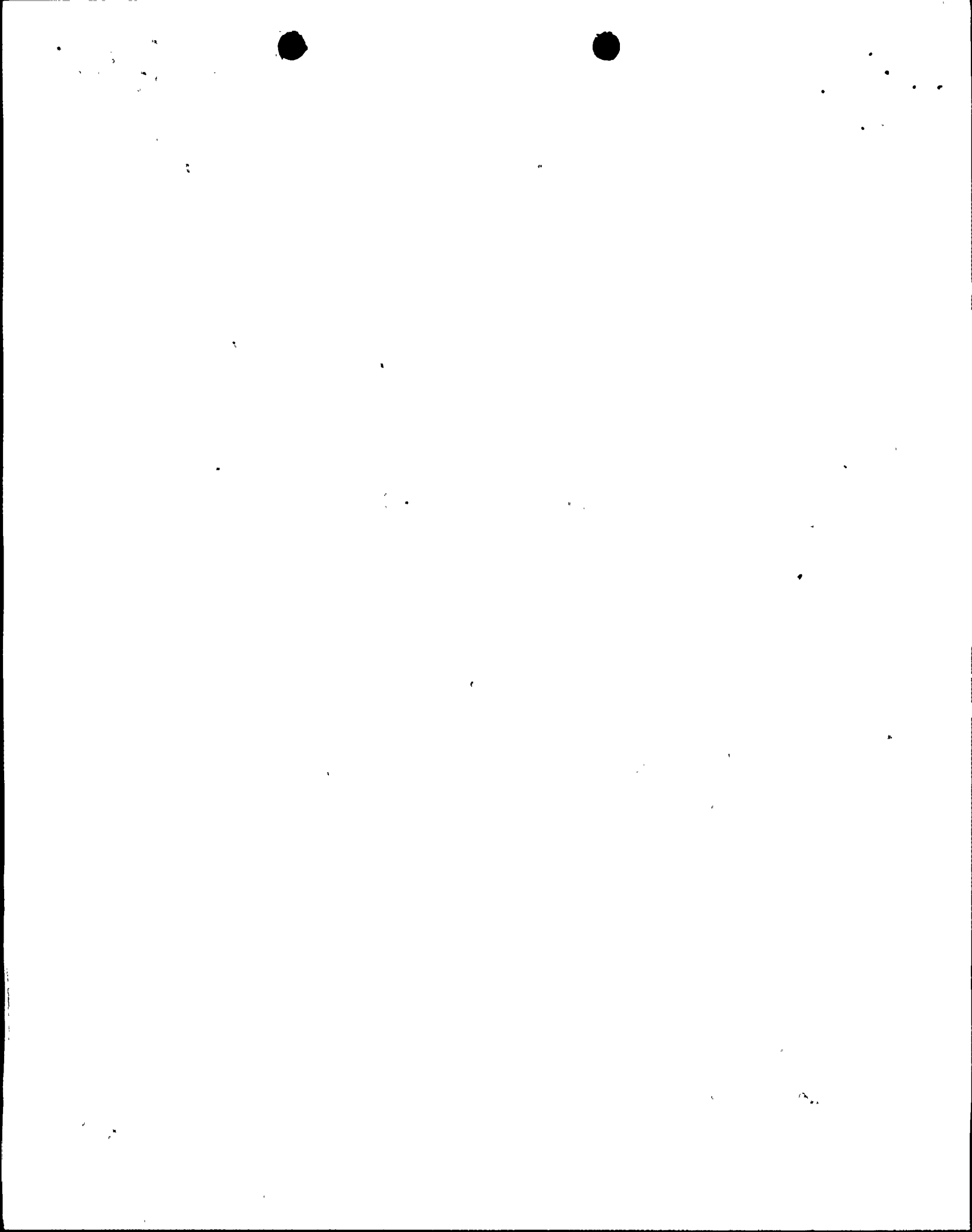
Reg files  
NRC PDR  
Branch Chief (L) *(2)* LEAR  
~~Site Asst~~

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: *MIAMI FLA*  
TIC  
NSIC

*P*  
773180103



REGULATORY DOCKET FILE COPY



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.

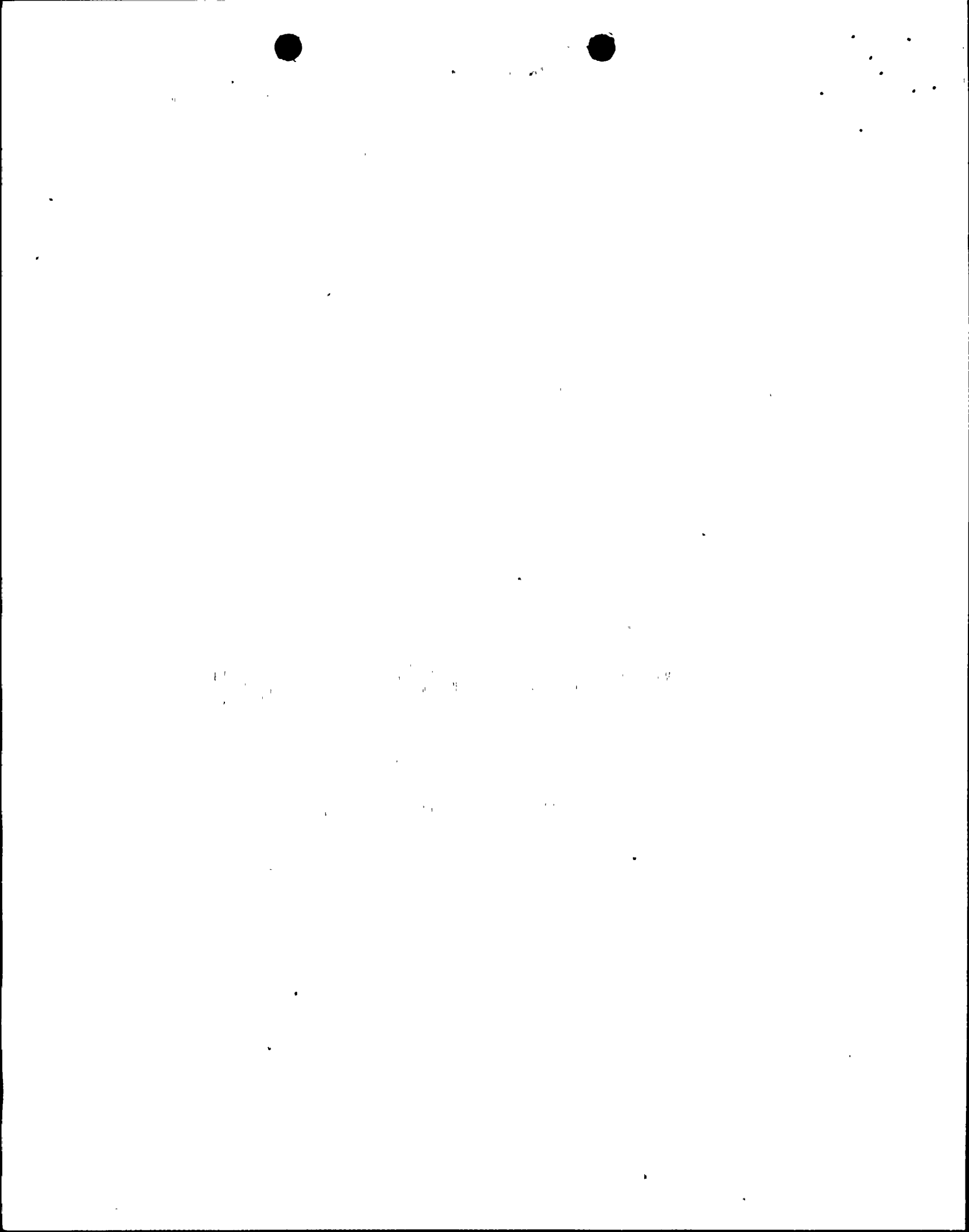
Very truly yours,

  
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  
Turkey Point  
UNIT 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):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

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





- ) 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 - 250  
Turkey Point  
 UNIT NAME Unit No. 3  
 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
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	<u>745.0</u>	<u>7 296.0</u>	<u>36 745.0</u>
12. Number Of Hours Reactor Was Critical	<u>659.3</u>	<u>4 553.3</u>	<u>26 275.0</u>
13. Reactor Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>138.8</u>
14. Hours Generator On-Line	<u>659.0</u>	<u>4 405.2</u>	<u>24 947.2</u>
15. Unit Reserve Shutdown Hours	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
16. Gross Thermal Energy Generated (MWH)	<u>1 443 071</u>	<u>9 495 905</u>	<u>52 555 275</u>
17. Gross Electrical Energy Generated (MWH)	<u>457 595</u>	<u>3 049 807</u>	<u>17 007 490</u>
18. Net Electrical Energy Generated (MWH)	<u>435 282</u>	<u>2 890 520</u>	<u>16 120 986</u>
19. Unit Service Factor	<u>88.5</u>	<u>60.4</u>	<u>67.9</u>
20. Unit Availability Factor	<u>88.5</u>	<u>60.4</u>	<u>67.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>87.7</u>	<u>59.5</u>	<u>66.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>84.3</u>	<u>57.2</u>	<u>63.3</u>
23. Unit Forced Outage Rate	<u>-0-</u>	<u>2.4</u>	<u>3.4</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: Nov. 11, 1977
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast                      Achieved

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## APPENDIX D

## UNIT SHUTDOWNS AND POWER REDUCTIONS

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

## ) 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)

## ) 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):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast	Achieved
<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

- ) 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)

REPORT MONTH OCTOBER, 1977

- ) 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.

RECEIVED DOCUMENT  
PROCESSING UNIT

1977 NOV 11 PM 4 11