NRC FORM 195 (2-76)

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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

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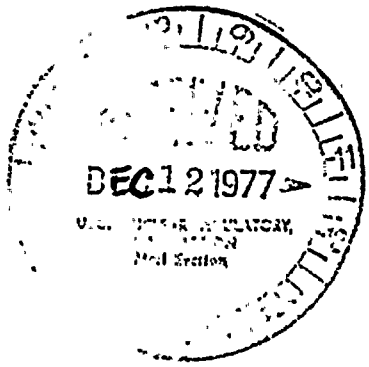
FLORIDA POWER & LIGHT COMPANY

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
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)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	635	17	634
2	633	18	628
3	630	19	568
4	628	20	556
5	628	21	557
6	630	22	552
7	632	23	518
8	615	24	---
9	264	25	---
10	258	26	---
11	305	27	---
12	423	28	---
13	655	29	---
14	652	30	---
15	643	31	
16	643		

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	720.0	8 016.0	43 737.6
12. Number Of Hours Reactor Was Critical	552.7	7 185.8	35 225.9
13. Reactor Reserve Shutdown Hours	-0-	43.7	111.1
14. Hours Generator On-Line	552.2	7 047.3	34 086.4
15. Unit Reserve Shutdown Hours	-0-	-0-	85.0
16. Gross Thermal Energy Generated (MWH)	1 084 071	15 044 604	66 774 192
17. Gross Electrical Energy Generated (MWH)	327 083	4 713 894	21 284 345
18. Net Electrical Energy Generated (MWH)	308 409	4 472 380	20 148 315
19. Unit Service Factor	76.7	87.9	77.9
20. Unit Availability Factor	76.7	87.9	78.1
21. Unit Capacity Factor (Using MDC Net)	64.3	83.8	69.9
22. Unit Capacity Factor (Using DER Net)	61.8	80.5	66.5
23. Unit Forced Outage Rate	-0-	2.4	2.8

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):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

(9/77)

(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 - 250
UNIT NAME Turkey Point Unit No. 3
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
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.

APRENDIX 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)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	---	17	674
2	---	18	665
3	---	19	672
4	---	20	676
5	---	21	677
6	---	22	676
7	---	23	673
8	---	24	676
9	---	25	684
10	---	26	685
11	---	27	687
12	627	28	688
13	677	29	683
14	679	30	642
15	682	31	
16	676		

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	720.0	8 016.0	37 465.0
12. Number Of Hours Reactor Was Critical	462.3	5 015.6	26 737.3
13. Reactor Reserve Shutdown Hours	-0-	-0-	138.8
14. Hours Generator On-Line	456.4	4 861.6	25 403.7
15. Unit Reserve Shutdown Hours	-0-	-0-	-0-
16. Gross Thermal Energy Generated (MWH)	997 179	10 493 084	53 552 454
17. Gross Electrical Energy Generated (MWH)	322 285	3 372 092	17 329 775
18. Net Electrical Energy Generated (MWH)	305 473	3 195 993	16 426 459
19. Unit Service Factor	63.4	60.6	67.8
20. Unit Availability Factor	63.4	60.6	67.8
21. Unit Capacity Factor (Using MDC Net)	63.7	59.9	66.3
22. Unit Capacity Factor (Using DER Net)	61.2	57.5	63.3
23. Unit Forced Outage Rate	0.4	2.3	3.3

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		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

(9/77)

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH NOVEMBER, 1977

(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)

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)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	684	17	723
2	668	18	626
3	721	19	751
4	785	20	779
5	775	21	746
6	781	22	537
7	772	23	786
8	783	24	773
9	779	25	792
10	760	26	794
11	789	27	797
12	781	28	794
13	795	29	772
14	795	30	793
15	794	~~31~~	
16	794		

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

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	720.0	8 016.0	8 280.0
12. Number Of Hours Reactor Was Critical	717.9	6 900.4	7 164.4
13. Reactor Reserve Shutdown Hours	-0-	101.5	101.5
14. Hours Generator On-Line	716.1	6 684.2	6 948.2
15. Unit Reserve Shutdown Hours	-0-	-0-	-0-
16. Gross Thermal Energy Generated (MWH)	1 764 776	15 660 203	16 007 806
17. Gross Electrical Energy Generated (MWH)	576 870	5 079 150	5 187 420
18. Net Electrical Energy Generated (MWH)	545 221	4 768 942	4 867 917
19. Unit Service Factor	99.5	83.4	83.9
20. Unit Availability Factor	99.5	83.4	83.9
21. Unit Capacity Factor (Using MDC Net)	97.5	76.6	75.7
22. Unit Capacity Factor (Using DER Net)	94.4	74.2	73.3
23. Unit Forced Outage Rate	0.6	11.2	10.8

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		

(9/77)

(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.