

50-250/251

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MONTHLY REPORT

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

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ENCLOSURE

Letter trans the following:

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

DO NOT REMOVE

ACKNOWLEDGED

PLANT NAME: Turkey Point Units 3 & 4
RJL 9/9/77

(1-P)

(11-P)

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FOR ACTION/INFORMATION

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772520024



September 3, 1977

Regulatory

File Cya


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



Gentlemen:

Attached are the August, 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

772520024

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

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

DATE September 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH AUGUST, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>637</u>
2	<u>639</u>
3	<u>642</u>
4	<u>641</u>
5	<u>642</u>
6	<u>686</u>
7	<u>643</u>
8	<u>639</u>
9	<u>642</u>
10	<u>638</u>
11	<u>639</u>
12	<u>642</u>
13	<u>641</u>
14	<u>638</u>
15	<u>634</u>
16	<u>637</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>630</u>
18	<u>629</u>
19	<u>626</u>
20	<u>624</u>
21	<u>622</u>
22	<u>627</u>
23	<u>630</u>
24	<u>630</u>
25	<u>633</u>
26	<u>632</u>
27	<u>635</u>
28	<u>636</u>
29	<u>633</u>
30	<u>628</u>
31	<u>642</u>

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

APPENDIX C
OPERATING DATA REPORT

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

REPORT MONTH AUGUST, 1977

DATE September 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

OPERATING STATUS

1. REPORTING PERIOD: 0001,77,08,01 GROSS HOURS IN REPORTING PERIOD: 744.0
 THROUGH 2400,77,08,31
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 2200
 MAX. DEPEND. CAPACITY (MWe-Net): 666
 DESIGN ELECTRICAL RATING (MWe-Net): 693
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): NONE
4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YEAR TO DATE	CUMULATIVE
5. NUMBERS OF HOURS REACTOR WAS CRITICAL.....	<u>744.0</u>	<u>5 258.7</u>	<u>33 298.8</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>4.8</u>	<u>72.2</u>
7. HOURS GENERATOR ON LINE.....	<u>744.0</u>	<u>5 089.0</u>	<u>32 128.1</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>85.0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 626 729</u>	<u>10 940 015</u>	<u>62 669 603</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>498 350</u>	<u>3 477 501</u>	<u>20 047 952</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>473 640</u>	<u>3 302 158</u>	<u>18 978 093</u>
12. REACTOR SERVICE FACTOR.....	<u>100.0</u>	<u>90.2</u>	<u>80.1</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>100.0</u>	<u>90.3</u>	<u>80.3</u>
14. UNIT SERVICE FACTOR.....	<u>100.0</u>	<u>87.3</u>	<u>77.3</u>
15. UNIT AVAILABILITY FACTOR.....	<u>100.0</u>	<u>87.3</u>	<u>77.5</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>95.6</u>	<u>85.0</u>	<u>69.4</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>91.9</u>	<u>81.7</u>	<u>65.9</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.0</u>	<u>2.8</u>	<u>2.9</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Refueling, maintenance, and inspections - Dec. 1, 1977 - Jan. 25, 1978
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH AUGUST, 1977

DOCKET NO. 50 - 250
 UNIT NAME Turkey Point
Unit No. 3
 DATE September 3, 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)

-) 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
						<u>NONE</u>

SUMMARY: Unit No. 3 operated at approximately 100% R.P. during month.

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 251

UNIT Turkey Point
Unit No. 4

DATE September 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH AUGUST, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	----
2	----
3	5
4	257
5	397
6	311
7	252
8	528
9	656
10	660
11	271
12	----
13	----
14	----
15	475
16	658

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	661
18	658
19	646
20	625
21	628
22	567
23	297
24	641
25	647
26	651
27	650
28	654
29	659
30	659
31	620

APPENDIX C
OPERATING DATA REPORT

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

REPORT MONTH AUGUST, 1977

DATE September 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

OPERATING STATUS

1. REPORTING PERIOD: 0001,77,08,01 GROSS HOURS IN REPORTING PERIOD: 744.0

THROUGH 2400,77,08,31
 2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 2200
 MAX. DEPEND. CAPACITY (MWe-Net): 666
 DESIGN ELECTRICAL RATING (MWe-Net): 693

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): NONE

4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YEAR TO DATE	CUMULATIVE
5. NUMBERS OF HOURS REACTOR WAS CRITICAL.....	<u>652.9</u>	<u>3 116.3</u>	<u>24 898.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>138.8</u>
7. HOURS GENERATOR ON LINE.....	<u>560.3</u>	<u>3 057.0</u>	<u>23 599.1</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 127 607</u>	<u>6 551 842</u>	<u>49 611 212</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>348 712</u>	<u>2 117 097</u>	<u>16 074 780</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>328 377</u>	<u>2 003 671</u>	<u>15 234 137</u>
12. REACTOR SERVICE FACTOR.....	<u>87.8</u>	<u>53.4</u>	<u>70.6</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>87.8</u>	<u>53.4</u>	<u>71.0</u>
14. UNIT SERVICE FACTOR.....	<u>75.3</u>	<u>52.4</u>	<u>66.9</u>
15. UNIT AVAILABILITY FACTOR.....	<u>75.3</u>	<u>52.4</u>	<u>66.9</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>66.3</u>	<u>51.6</u>	<u>65.4</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>63.7</u>	<u>49.6</u>	<u>62.3</u>
18. UNIT FORCED OUTAGE RATE.....	<u>15.8</u>	<u>3.3</u>	<u>3.6</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH AUGUST, 1944

Page 1 of 3

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
5	77-05-09	S	66.0	C	4	Unit No. 4 was removed from service for refueling, maintenance, and inspections. (Continued from previous month) (Nuclear and Non-nuclear systems)
6	77-08-03	F	2.5	A	3	Unit was tripped on steam generator No. 4B high level during a transient condition caused by the malfunction of the turbine control system. (non-nuclear system)
7	77-08-04	F	1.7	A	4	Unit was removed from service to extinguish a fire in the thermal insulation material adjacent to the turbine No. 1 gland seal. Corrective action included removal of existing insulation material and replacing with new thermal insulation material. (Non-nuclear system)



APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH AUGUST, 1977

Page 2 of 3

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
8	77-08-05	F	4.2	A	3	Unit was tripped during a transient condition caused by the closure of main steam isolation valve No. 4A. Corrective action included locating and repairing an intermittent open circuit condition in the valve control system. (Non-nuclear system)
9	77-08-06	F	2.3	A	3	Unit was tripped during a transient condition caused by the loss of vital instrument power supply to components in the steam generator level protection system. (Nuclear system)
10	77-08-07	F	4.7	A	3	Unit was tripped during a transient condition caused by the loss of vital instrument power supply to components in the steam generator level protection system. Corrective actions included locating and replacing a failed relay. (Nuclear system)

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH AUGUST, 1977

Page 3 of 3

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
11	77-08-11	F	89.8	H A	3	Unit was tripped when a relay in the turbine protection system was activated when the relay was inadvertently bumped. (Non-nuclear system) The outage was extended to repair a leak at a drain connection on the seal injection line to reactor coolant pump that could not be isolated. (Nuclear system)
12	77-08-22	S	12.4	A	4	Unit was removed from service to repair an oil leak at a weld in the control oil supply line to turbine control valve servomotor. Corrective actions included repairs by welding. (Non-nuclear system)

SUMMARY: Unit No. 4 was returned to service on August 3, 1977, following completion of scheduled outage for refueling, maintenance, and inspections. The unit operated at approximately 100% R.P., except for outages of August 3, 4, 5, 6, 7, 11, and 22-23, 1977.

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

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

DATE September 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

MONTH AUGUST, 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>776</u>
2	<u>772</u>
3	<u>776</u>
4	<u>778</u>
5	<u>771</u>
6	<u>779</u>
7	<u>778</u>
8	<u>782</u>
9	<u>782</u>
10	<u>782</u>
11	<u>783</u>
12	<u>788</u>
13	<u>789</u>
14	<u>779</u>
15	<u>770</u>
16	<u>788</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>787</u>
18	<u>789</u>
19	<u>789</u>
20	<u>780</u>
21	<u>794</u>
22	<u>759</u>
23	<u>790</u>
24	<u>782</u>
25	<u>760</u>
26	<u>787</u>
27	<u>784</u>
28	<u>782</u>
29	<u>779</u>
30	<u>740</u>
31	<u>410</u>

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

APPENDIX C
OPERATING DATA REPORT

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

REPORT MONTH AUGUST, 1977

DATE September 3, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3824

OPERATING STATUS

1. REPORTING PERIOD: 0001,77,08,01 GROSS HOURS IN REPORTING PERIOD: 744.0
THROUGH 2400,77,08,31
2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 2560
MAX. DEPEND. CAPACITY (MWe-Net): 777
DESIGN ELECTRICAL RATING (MWe-Net): 802
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): NONE
4. REASONS FOR RESTRICTION (IF ANY):

	THIS MONTH	YEAR TO DATE	CUMULATIVE
5. NUMBERS OF HOURS REACTOR WAS CRITICAL.....	<u>742.0</u>	<u>5 086.4</u>	<u>5 350.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>101.5</u>	<u>101.5</u>
7. HOURS GENERATOR ON LINE.....	<u>740.4</u>	<u>4 878.3</u>	<u>5 142.3</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 865 335</u>	<u>11 174 908</u>	<u>11 522 511</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>603 760</u>	<u>3 621 000</u>	<u>3 730 270</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>570 795</u>	<u>3 393 943</u>	<u>3 492 918</u>
12. REACTOR SERVICE FACTOR.....	<u>99.7</u>	<u>87.2</u>	<u>87.8</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>99.7</u>	<u>89.0</u>	<u>89.4</u>
14. UNIT SERVICE FACTOR.....	<u>99.5</u>	<u>83.7</u>	<u>84.4</u>
15. UNIT AVAILABILITY FACTOR.....	<u>99.5</u>	<u>83.7</u>	<u>84.4</u>
16. UNIT CAPACITY FACTOR (Using (MDC).....	<u>98.7</u>	<u>74.9</u>	<u>73.8</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>95.7</u>	<u>72.6</u>	<u>71.5</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.5</u>	<u>14.7</u>	<u>14.0</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Preliminary Warranty Inspection - September 25 - October 9, 1977
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____

21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH AUGUST, 1977DOCKET NO. 50 - 335UNIT NAME St. Lucie
Unit No. 1DATE September 3, 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
31	77-08-31	S	-0-	B	4	Load was reduced to approximately 50% R.P. to clean steam generator feedwater pump suction strainers and to clean condenser. (Non-nuclear system)
32	77-08-31	F	3.6	A	3	Unit tripped by steam generator level protection system during a transient condition caused by loss of steam generator feedwater pump. (Non-nuclear system)

SUMMARY: Unit operated at approximately 100% R.P. except for load reduction and unit outage on August 31, 1977.