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PLANT NAME: TURKEY PT. UNITS 3 & 4  
ST LUCIE UNIT # 1

ENCLOSURE  
MONTHLY REPORT FOR January, 1977  
PLANT & COMPONENT OPERABILITY &  
AVAILABILITY. THIS REPORT TO BE USED IN  
PREPARING GRAY BOOK BY PLANS & OPERATIONS.  
  
( 3 encl rec'd )  
( 9 pages )

SAFETY

FOR ACTION/INFORMATION

ENVIRO

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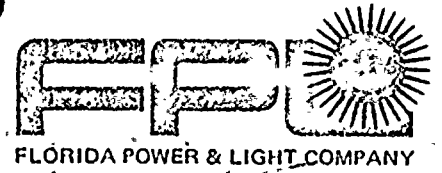
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9472



February 7, 1977

Docket No. 50-335/250/251

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



Gentlemen:

Attached are the January, 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. Norman C. Moseley  
Robert Lowenstein, Esquire

APPENDIX B  
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 250

UNIT Turkey Point Unit No. 3

DATE Feb. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

MONTH January, 1977

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	---
2	---
3	---
4	---
5	---
6	---
7	---
8	---
9	---
10	---
11	---
12	---
13	---
14	---
15	---
16	---

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	---
18	---
19	60
20	418
21	306
22	669
23	543
24	185
25	239
26	677
27	681
28	682
29	680
30	683
31	685

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

APPENDIX C  
OPERATING DATA REPORT

DOCKET NO. 50 - 250

UNIT Turkey Point Unit No. 3

REPORT MONTH January, 1977

DATE Feb. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

OPERATING STATUS

1. REPORTING PERIOD: 0001,77,01,01 GROSS HOURS IN REPORTING PERIOD: 744.0  
THROUGH 2400,77,01,31
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>388.6</u>	<u>388.6</u>	<u>28 428.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>67.4</u>
7. HOURS GENERATOR ON LINE.....	<u>267.0</u>	<u>267.0</u>	<u>27 306.1</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>85.0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>512 809</u>	<u>512 809</u>	<u>52 242 397</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>165 765</u>	<u>165 765</u>	<u>16 736 216</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>153 475</u>	<u>153 475</u>	<u>15 829 410</u>
12. REACTOR SERVICE FACTOR.....	<u>52.2</u>	<u>52.2</u>	<u>77.9</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>52.2</u>	<u>52.2</u>	<u>78.1</u>
14. UNIT SERVICE FACTOR.....	<u>35.9</u>	<u>35.9</u>	<u>74.9</u>
15. UNIT AVAILABILITY FACTOR.....	<u>35.9</u>	<u>35.9</u>	<u>75.1</u>
16. UNIT CAPACITY FACTOR (Using (MDC).....	<u>31.0</u>	<u>31.0</u>	<u>66.0</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>29.8</u>	<u>29.8</u>	<u>62.6</u>
18. UNIT FORCED OUTAGE RATE.....	<u>3.3</u>	<u>3.3</u>	<u>2.9</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):  
NONE
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 January, 1977DOCKET NO. 50 - 250UNIT NAME Turkey Point Unit No. 3DATE Feb. 5, 1977COMPLETED BY V. T. ChilsonTELEPHONE (305) 552-3830

## (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
21	76-11-14	S	443.2	C	4	Unit No. 3 removed from service for refueling, maintenance, and inspections. (Continued from previous month) (Nuclear and Non-nuclear systems)
1	77-01-19	F	1.1	G	3	Reactor tripped during transient condition caused by partially closed instrument air supply valve to steam generator No. 3A feedwater control valve.
2	77-01-19	F	1.2	A	3	Unit tripped by sudden drop in control oil pressure in turbine control system. (Non-nuclear system)
3	77-01-21	F	5.3	G	3	Reactor tripped during performance of periodic test of nuclear instrumentation system when second channel was placed in test mode, in error. (Nuclear system)
4	77-01-24	F	1.4	A	3	Reactor tripped by momentary decrease in signal from reactor coolant system loop 3C flow transmitter, Channel III, while flow transmitter, Channel II, was being returned to service after repairs. (Nuclear sys.)
5	77-01-25	S	24.8	B	1	Unit was removed from service to perform test on turbine overspeed trip device. Outage was extended to perform maintenance work, including work on turbine control system. (Non-nuclear system)

SUMMARY: Unit No. 3 was returned to service on January 19, 1977 following completion of refueling, maintenance, and inspections. Unit operated at approximately 100% R.P. during month except for outages on January 19, 21, 24, and 25, 1977.

APPENDIX B  
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 251

UNIT Turkey Point Unit No. 4

DATE Feb. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

MONTH January, 1977

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>686</u>
2	<u>687</u>
3	<u>684</u>
4	<u>685</u>
5	<u>631</u>
6	<u>---</u>
7	<u>---</u>
8	<u>---</u>
9	<u>---</u>
10	<u>---</u>
11	<u>327</u>
12	<u>683</u>
13	<u>689</u>
14	<u>689</u>
15	<u>685</u>
16	<u>693</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>690</u>
18	<u>692</u>
19	<u>692</u>
20	<u>693</u>
21	<u>690</u>
22	<u>688</u>
23	<u>691</u>
24	<u>686</u>
25	<u>318</u>
26	<u>---</u>
27	<u>---</u>
28	<u>---</u>
29	<u>---</u>
30	<u>406</u>
31	<u>674</u>

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

APPENDIX C  
OPERATING DATA REPORT

DOCKET NO. 50 - 251

UNIT Turkey Point Unit No. 4

REPORT MONTH January, 1977

DATE Feb. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

OPERATING STATUS

1. REPORTING PERIOD: 0001,77,01,01 GROSS HOURS IN REPORTING PERIOD: 744.0  
THROUGH 2400,77,01,31
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>514.1</u>	<u>514.1</u>	<u>22 235.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>138.8</u>
7. HOURS GENERATOR ON LINE.....	<u>500.9</u>	<u>500.9</u>	<u>21 042.9</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 078 808</u>	<u>1 078 808</u>	<u>44 138 178</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>354 515</u>	<u>354 515</u>	<u>14 312 203</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>336 265</u>	<u>336 265</u>	<u>13 566 731</u>
12. REACTOR SERVICE FACTOR.....	<u>69.1</u>	<u>69.1</u>	<u>73.6</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>69.1</u>	<u>69.1</u>	<u>74.1</u>
14. UNIT SERVICE FACTOR.....	<u>67.3</u>	<u>67.3</u>	<u>69.7</u>
15. UNIT AVAILABILITY FACTOR.....	<u>67.3</u>	<u>67.3</u>	<u>69.7</u>
16. UNIT CAPACITY FACTOR (Using (MDC).....	<u>67.9</u>	<u>67.9</u>	<u>68.2</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>65.2</u>	<u>65.2</u>	<u>64.8</u>
18. UNIT FORCED OUTAGE RATE.....	<u>-0-</u>	<u>-0-</u>	<u>3.4</u>

19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):  
Refueling, maintenance, and inspections - April 25 through June 11, 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

- (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)

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1977DOCKET NO. 50 - 251UNIT NAME Turkey Point Unit No. 4DATE Feb. 5, 1977COMPLETED BY V. T. ChilsonTELEPHONE (305) 552-3830

- (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
1	77-01-06	S	129.7	A	1	Unit No. 4 was removed from service to repair steam generator No. 4C tube leak. Corrective actions included plug one leaking tube and repair one leaking plug. (Nuclear System)
2	77-01-25	S	113.4	A	1	Unit No. 4 was removed from service to repair steam generator No. 4C tube leak. Corrective actions included plugging two tubes two additional tubes were plugged as a preventative measure. (Nuclear system)

SUMMARY: Unit No. 4 operated at approximately 100% R.P. except for unit outages January 6 - 11, and January 25 - 30, 1977.



APPENDIX B  
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 335

UNIT St. Lucie-Unit No. 1

DATE Feb. 5, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

MONTH January, 1977

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>379</u>
2	<u>381</u>
3	<u>232</u>
4	<u>---</u>
5	<u>134</u>
6	<u>372</u>
7	<u>393</u>
8	<u>399</u>
9	<u>450</u>
10	<u>520</u>
11	<u>608</u>
12	<u>666</u>
13	<u>670</u>
14	<u>669</u>
15	<u>665</u>
16	<u>664</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	<u>667</u>
18	<u>669</u>
19	<u>670</u>
20	<u>676</u>
21	<u>674</u>
22	<u>670</u>
23	<u>664</u>
24	<u>567</u>
25	<u>578</u>
26	<u>667</u>
27	<u>671</u>
28	<u>658</u>
29	<u>664</u>
30	<u>662</u>
31	<u>665</u>

APPENDIX C  
OPERATING DATA REPORT

DOCKET NO. 50 - 335

UNIT St. Lucie Unit No. 1

DATE Feb. 5, 1977

REPORT MONTH January, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

OPERATING STATUS

1. REPORTING PERIOD: 0001,77,01,01 GROSS HOURS IN REPORTING PERIOD: 744.0  
THROUGH 2400,77,01,31
  2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 2560  
MAX. DEPEND. CAPACITY (MWe-Net): 802 (Estimated)  
DESIGN ELECTRICAL RATING (MWe-Net): 802
  3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): 722
  4. REASONS FOR RESTRICTION (IF ANY):  
"Temporary 90% restriction pending reactor coolant flow analysis"
- |  | THIS MONTH       | YEAR TO DATE     | CUMULATIVE       |
|--|------------------|------------------|------------------|
| 5. NUMBERS OF HOURS REACTOR WAS CRITICAL.....  | <u>731.6</u>     | <u>731.6</u>     | <u>995.6</u>     |
| 6. REACTOR RESERVE SHUTDOWN HOURS.....         | <u>-0-</u>       | <u>-0-</u>       | <u>-0-</u>       |
| 7. HOURS GENERATOR ON LINE.....                | <u>699.2</u>     | <u>699.2</u>     | <u>963.2</u>     |
| 8. UNIT RESERVE SHUTDOWN HOURS.....            | <u>-0-</u>       | <u>-0-</u>       | <u>-0-</u>       |
| 9. GROSS THERMAL ENERGY GENERATED (MWH).....   | <u>1 317 560</u> | <u>1 317 560</u> | <u>1 665 163</u> |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH)... | <u>438 120</u>   | <u>438 120</u>   | <u>546 390</u>   |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH)..... | <u>407 781</u>   | <u>407 781</u>   | <u>506 756</u>   |
| 12. REACTOR SERVICE FACTOR.....                | <u>98.3</u>      | <u>98.3</u>      | <u>98.8</u>      |
| 13. REACTOR AVAILABILITY FACTOR.....           | <u>98.3</u>      | <u>98.3</u>      | <u>98.8</u>      |
| 14. UNIT SERVICE FACTOR.....                   | <u>94.0</u>      | <u>94.0</u>      | <u>95.6</u>      |
| 15. UNIT AVAILABILITY FACTOR.....              | <u>94.0</u>      | <u>94.0</u>      | <u>95.6</u>      |
| 16. UNIT CAPACITY FACTOR (Using (MDC).....     | <u>73.4</u>      | <u>73.4</u>      | <u>67.6</u>      |
| 17. UNIT CAPACITY FACTOR (Using Design MWe)... | <u>73.4</u>      | <u>73.4</u>      | <u>67.6</u>      |
| 18. UNIT FORCED OUTAGE RATE.....               | <u>6.1</u>       | <u>6.1</u>       | <u>4.5</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  | _____    | <u>April 22, 1976</u> |
| INITIAL ELECTRICITY  | _____    | <u>May 7, 1976</u>    |
| COMMERCIAL OPERATION | _____    | <u>Dec. 21, 1976</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 January, 1977

DOCKET NO. 50 - 335.1  
UNIT NAME St. Lucie Unit No. 1  
DATE Feb. 5, 1977  
COMPLETED BY V. T. Chilson  
TELEPHONE (305) 552-3830

(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
1	76-01-03	F	44.8	A	3	Unit tripped during transient condition caused by loss of steam generator feedwater pumps. Outage was extended to perform maintenance work (Non-nuclear system)
2	76-01-24	F	-0-	B	4	Unit load was reduced to clean condensate pump suction strainers. (Non-nuclear system)

SUMMARY: Unit No. 1 operated at approximately 50% R.P. (except unit outage on January 3-5, 1977) through January 8, 1977.  
Unit was operated at approximately 80% R.P. from January 11, 1977 through end of month, except for load reduction of January 24, 1977.

