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ENCLOSURE

MONTHLY REPORT FOR FEBRUARY, 1977
PLANT & COMPONENT OPERABILITY &
AVAILABILITY. THIS REPORT TO BE USED IN
PREPARING GRAY BOOK BY PLANS & OPERATIONS.

(9 pages)

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

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ACKNOWLEDGED

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ACKNOWLEDGED



March 7, 1977

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

Regulatory Docket File

Gentlemen:

Attached are the February 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
Attachments

cc: Mr. Norman C. Moseley
Robert Lowenstein, Esquire



770750244

2709

Regulatory Docket File

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 335

UNIT St. Lucie Unit No. 1

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

MONTH February 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>284</u>
2	<u>6</u>
3	<u>331</u>
4	<u>656</u>
5	<u>719</u>
6	<u>721</u>
7	<u>724</u>
8	<u>723</u>
9	<u>722</u>
10	<u>724</u>
11	<u>722</u>
12	<u>723</u>
13	<u>721</u>
14	<u>720</u>
15	<u>682</u>
16	<u>716</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>694</u>
18	<u>722</u>
19	<u>800</u>
20	<u>323</u>
21	<u>224</u>
22	<u>363</u>
23	<u>795</u>
24	<u>796</u>
25	<u>790</u>
26	<u>776</u>
27	<u>792</u>
28	<u>791</u>
29	---
30	---
31	---

APPENDIX C
OPERATING DATA REPORT

DOCKET NO. 50 - 335

UNIT St. Lucie Unit No. 1

REPORT MONTH February 1977

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

OPERATING STATUS

1. REPORTING PERIOD: 0001.77.02.01 GROSS HOURS IN REPORTING PERIOD: 672.0
THROUGH 2400.77.02.28
2. CURRENTLY AUTHORIZED POWER LEVEL (MWe): 2560
MAX. DEPEND. CAPACITY (MWe-Net): 777 (Est.)
DESIGN ELECTRICAL RATING (MWe-Net): 802
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): _____
4. REASONS FOR RESTRICTION (IF ANY): _____

	THIS MONTH	YEAR TO DATE	CUMULATIVE
5. NUMBERS OF HOURS REACTOR WAS CRITICAL.....	<u>630.6</u>	<u>1 362.2</u>	<u>1 626.2</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
7. HOURS GENERATOR ON LINE.....	<u>600.0</u>	<u>1 299.2</u>	<u>1 563.2</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 389 034</u>	<u>2 706 594</u>	<u>3 054 197</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>454 690</u>	<u>892 810</u>	<u>1 001 080</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>426 256</u>	<u>834 037</u>	<u>933 012</u>
12. REACTOR SERVICE FACTOR.....	<u>93.9</u>	<u>96.2</u>	<u>96.8</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>93.9</u>	<u>96.2</u>	<u>96.8</u>
14. UNIT SERVICE FACTOR.....	<u>89.3</u>	<u>91.8</u>	<u>93.0</u>
15. UNIT AVAILABILITY FACTOR.....	<u>89.3</u>	<u>91.8</u>	<u>93.0</u>
16. UNIT CAPACITY FACTOR (Using (MDC).....	<u>81.6</u>	<u>75.8</u>	<u>71.4</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>79.1</u>	<u>73.4</u>	<u>69.2</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.5</u>	<u>3.6</u>	<u>3.0</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

REPORT MONTH February 1977DOCKET NO. 50 - 335UNIT NAME St. Lucie Unit No. 1DATE March 2, 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
3	77-02-01	S	12.4	B	3	Partial loss of flow test (tripped one reactor coolant pump). Power Ascension Test Program.
4	77-02-02	S	20.0	B	3	Total loss of flow test (tripped all reactor coolant pumps). Power Ascension Test Program.
5	77-02-03	S	4.8	B	3	Loss of off-site power supply. Power Ascension Test Program.
6	77-02-20	S	13.8	B	3	Turbine tripped from approximately 100% R.P. Power Ascension Test Program.
7	77-02-21	F	2.8	G	3	Unit tripped on low steam generator level during transient condition while increasing load after the unit was returned to service from the power ascension turbine trip test.
8	77-02-21	S	18.2	B	3	Generator tripped from approximately 100% R.P. Power Ascension Test Program.

SUMMARY: Power Ascension Test Program continued during month.



APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 250

UNIT Turkey Point Unit No. 3

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

MONTH February 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>685</u>
2	<u>685</u>
3	<u>631</u>
4	<u>522</u>
5	<u>568</u>
6	<u>346</u>
7	<u>686</u>
8	<u>691</u>
9	<u>694</u>
10	<u>689</u>
11	<u>686</u>
12	<u>688</u>
13	<u>687</u>
14	<u>684</u>
15	<u>684</u>
16	<u>688</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>691</u>
18	<u>695</u>
19	<u>616</u>
20	<u>691</u>
21	<u>558</u>
22	<u>614</u>
23	<u>692</u>
24	<u>698</u>
25	<u>642</u>
26	<u>550</u>
27	<u>685</u>
28	<u>683</u>
29	<u>---</u>
30	<u>---</u>
31	<u>---</u>

NOTE: Average daily power
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 February 1977

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

OPERATING STATUS

1. REPORTING PERIOD: 0001.77.02.01 GROSS HOURS IN REPORTING PERIOD: 672.0
THROUGH 2400.77.02.28
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>662.0</u>	<u>1 050.6</u>	<u>29 090.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>67.4</u>
7. HOURS GENERATOR ON LINE.....	<u>656.0</u>	<u>923.0</u>	<u>27 962.1</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>85.0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 395 687</u>	<u>1 908 496</u>	<u>53 638 084</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>457 227</u>	<u>622 992</u>	<u>17 193 443</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>435 126</u>	<u>588 601</u>	<u>16 264 586</u>
12. REACTOR SERVICE FACTOR.....	<u>98.5</u>	<u>74.2</u>	<u>78.3</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>98.5</u>	<u>74.2</u>	<u>78.5</u>
14. UNIT SERVICE FACTOR.....	<u>97.6</u>	<u>65.2</u>	<u>75.3</u>
15. UNIT AVAILABILITY FACTOR.....	<u>97.6</u>	<u>65.2</u>	<u>75.5</u>
16. UNIT CAPACITY FACTOR (Using (MDC).....	<u>97.2</u>	<u>62.4</u>	<u>66.6</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>93.4</u>	<u>60.0</u>	<u>63.2</u>
18. UNIT FORCED OUTAGE RATE.....	<u>2.4</u>	<u>2.6</u>	<u>2.9</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> </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 February 1977

DOCKET NO. 50 - 250

UNIT NAME Turkey Point Unit No. 3

DATE March 2, 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
6	77-02-03	F	-0-	A	4	Load reduction to locate and repair condenser tube leak. (Non-nuclear system)
7	77-02-05	F	12.3	A	1	Unit No. 3 was removed from service to repair oil leak on reactor coolant pump No. 3A. (Nuclear system)
8	77-02-06	F	1.0	H	3	Reactor tripped by nuclear instrumentation system while increasing load after the unit was returned to service. (Nuclear system)
9	77-02-21	F	2.7	A	3	Reactor trip caused by loss of second of two rod control system power supplies. (Nuclear system)
10	77-02-25	F	-0-	A	4	Load reduction to locate and repair condenser tube leak. (Non-nuclear system)

SUMMARY: Unit No. 3 operated at approximately 100% R.P. except for load reductions on February 3 and 25, 1977, and outages on February 5, 6 and 21, 1977.

APPENDIX B
AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 251

UNIT Turkey Point Unit No. 4

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

MONTH February 1977

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>680</u>
2	<u>686</u>
3	<u>687</u>
4	<u>680</u>
5	<u>681</u>
6	<u>683</u>
7	<u>681</u>
8	<u>683</u>
9	<u>682</u>
10	<u>686</u>
11	<u>689</u>
12	<u>691</u>
13	<u>686</u>
14	<u>687</u>
15	<u>689</u>
16	<u>689</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>693</u>
18	<u>693</u>
19	<u>688</u>
20	<u>685</u>
21	<u>687</u>
22	<u>691</u>
23	<u>688</u>
24	<u>684</u>
25	<u>682</u>
26	<u>686</u>
27	<u>680</u>
28	<u>676</u>
29	---
30	---
31	---

NOTE: Average daily power 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 February 1977

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

OPERATING STATUS

1. REPORTING PERIOD: 0001.77.02.01 GROSS HOURS IN REPORTING PERIOD: 672.0
THROUGH 2400.77.02.28
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>672.0</u>	<u>1 186.1</u>	<u>22 907.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>138.8</u>
7. HOURS GENERATOR ON LINE.....	<u>672.0</u>	<u>1 172.9</u>	<u>21 715.0</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1 470 916</u>	<u>2 549 724</u>	<u>45 609 094</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>483 025</u>	<u>837 540</u>	<u>14 795 223</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>460 636</u>	<u>796 901</u>	<u>14 027 367</u>
12. REACTOR SERVICE FACTOR.....	<u>100.0</u>	<u>83.7</u>	<u>74.2</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>100.0</u>	<u>83.7</u>	<u>74.7</u>
14. UNIT SERVICE FACTOR.....	<u>100.0</u>	<u>82.9</u>	<u>70.4</u>
15. UNIT AVAILABILITY FACTOR.....	<u>100.0</u>	<u>82.9</u>	<u>70.4</u>
16. UNIT CAPACITY FACTOR (Using (MDC).....	<u>102.9⁽¹⁾</u>	<u>84.5</u>	<u>69.0</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>98.9</u>	<u>81.2</u>	<u>65.6</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.0</u>	<u>0.0</u>	<u>3.5</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	_____	_____

(1) NOTE: Unit Capacity Factor (MDC) greater than 100% due to cooler condenser cooling water.

APPENDIX D

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1977

DOCKET NO. 50 - 251

UNIT NAME Turkey Point Unit No. 4

DATE March 2, 1977

COMPLETED BY V. T. Chilson

TELEPHONE (305) 552-3830

) 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. 4 operated at approximately 100% R.P. during month.



1954
JAN 14
1954