



South Texas Project Nuclear Operating Company P.O. Box 289 Wadsworth, Texas 77483

January 15, 2002
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10CFR50.71
STI: 31541410

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Monthly Operating Reports for December 2002

Pursuant to 10CFR50.71(a) and South Texas Project Electric Generating Station (STPEGS) Technical Specification 6.9.1.5, attached are the Monthly Operating Reports for December 2002. If you should have any questions on this matter, please contact R.L. Hill at (361) 972-7667.

A handwritten signature in black ink, appearing to read "F.H. Mallen".

F.H. Mallen
Manager, Planning &
Controls

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report – December 2002
2) STPEGS Unit 2 Monthly Operating Report – December 2002

IE24

cc:
(paper copy)

Ellis W. Merschoff
Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
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11555 Rockville Pike
Rockville, MD 20852

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A. Ramirez
City of Austin

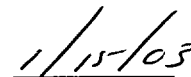
C. A. Johnson/A. C. Bakken III
AEP - Central Power and Light Company

Jon C. Wood
Matthews & Branscomb

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
DECEMBER 2002
STP NUCLEAR OPERATING COMPANY
NRC DOCKET NO. 50-498
LICENSE NO. NPF-76

Approved By:


E.D. HALPIN


Date

MONTHLY SUMMARY

South Texas Project Unit 1 operated during the reporting period at full power with no unit shutdowns or significant power reductions.

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE Jan. 8, 2003
 COMPLETED BY R.L. Hill
 TELEPHONE 361.972.7667

OPERATING STATUS

1. REPORTING PERIOD: 12/1/02-12/31/02 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 3,853
 MAXIMUM DEPENDABLE CAPACITY (MWe-Net): 1,250.6
 DESIGN ELECTRICAL RATING (MWe-Net): 1,250.6
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): None
4. REASONS FOR RESTRICTION (IF ANY): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR CRITICAL	<u>744.0</u>	<u>8,579.2</u>	<u>98,529.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>744.0</u>	<u>8,573.4</u>	<u>96,893.1</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,839,848</u>	<u>32,652,123</u>	<u>361,950,463</u>
10. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>953,549</u>	<u>10,867,941</u>	<u>118,216,055</u>
11. REACTOR SERVICE FACTOR (%)	<u>100.0</u>	<u>97.9</u>	<u>78.3</u>
12. REACTOR AVAILABILITY FACTOR (%)	<u>100.0</u>	<u>97.9</u>	<u>78.3</u>
13. UNIT SERVICE FACTOR (%)	<u>100.0</u>	<u>97.9</u>	<u>77.0</u>
14. UNIT AVAILABILITY FACTOR (%)	<u>100.0</u>	<u>97.9</u>	<u>77.0</u>
15. UNIT CAPACITY FACTOR - Using MDC (%)	<u>102.5</u>	<u>99.2</u>	<u>75.1</u>
16. UNIT CAPACITY FACTOR - Using DER (%)	<u>102.5</u>	<u>99.2</u>	<u>75.1</u>
17. UNIT FORCED OUTAGE RATE (%)	<u>0.0</u>	<u>2.1</u>	<u>13.4</u>

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

Scheduled 22-day outage to allow scheduled refueling to begin on March 26, 2003.

19. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
UNIT 1
DATE Jan 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

MONTH DECEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1274</u>	17	<u>1284</u>
2	<u>1273</u>	18	<u>1284</u>
3	<u>1272</u>	19	<u>1272</u>
4	<u>1272</u>	20	<u>1287</u>
5	<u>1262</u>	21	<u>1286</u>
6	<u>1270</u>	22	<u>1285</u>
7	<u>1286</u>	23	<u>1283</u>
8	<u>1284</u>	24	<u>1284</u>
9	<u>1283</u>	25	<u>1286</u>
10	<u>1285</u>	26	<u>1286</u>
11	<u>1286</u>	27	<u>1285</u>
12	<u>1283</u>	28	<u>1286</u>
13	<u>1286</u>	29	<u>1285</u>
14	<u>1286</u>	30	<u>1284</u>
15	<u>1285</u>	31	<u>1285</u>
16	<u>1284</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT 1
 DATE Jan. 8, 2003
 COMPLETED BY R.L. Hill
 TELEPHONE 361.972.7667

REPORT MONTH DECEMBER

No.	Date	1 Type	Duration (Hours)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
THERE WERE NO UNIT SHUTDOWNS OR SIGNIFICANT POWER REDUCTIONS DURING THE REPORTING PERIOD									

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Exam
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Cont. of Existing
 Outage
5-Reduction
9-Other

4
IEEE 805-1983

5
IEEE 803-1983

PORVS AND SAFETY VALVE SUMMARY

There were no PORV or Safety Valves challenged during the reporting period.

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 2
MONTHLY OPERATING REPORT
DECEMBER 2002
STP NUCLEAR OPERATING COMPANY
NRC DOCKET NO. 50-499
LICENSE NO. NPF-80

Approved By:



E.D. HALPIN



Date

MONTHLY SUMMARY

South Texas Project Unit 2 began the reporting period shutdown for scheduled refueling and steam generator replacement. The unit was returned to service on December 6, at 0509 and full power was achieved on December 13, at 1114.

On December 15, at 1805 the reactor was manually tripped due to a sudden high main turbine vibration. After opening the turbine and condenser, one last row blade on low-pressure (LP) rotor 22 had separated from the rotor causing some collateral damage within LP 22. Numerous last row blade cracks were discovered during visual inspections of the blades on LP 22 and 23. Additional damage was found on stationary blades in 22, the exhaust flow guide and some condenser tubes. Metallurgical examinations found the cracks as a result of high cycle fatigue.

The unit remained shutdown at the end of the reporting period with repairs ongoing.

OPERATING DATA REPORT

DOCKETNO. 50-499
 UNIT 2
 DATE Jan. 8, 2003
 COMPLETED BY R.L. Hill
 TELEPHONE 361.972.7667

OPERATING STATUS

1. REPORTING PERIOD: 12/1/02-12/31/02 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3,853
 MAXIMUM DEPENDABLE CAPACITY (MWe-Net): 1,250.6
 DESIGN ELECTRICAL RATING (MWe-Net): 1,250.6
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): None
4. REASONS FOR RESTRICTION (IF ANY): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR CRITICAL	<u>263.4</u>	<u>6,743.7</u>	<u>94,557.7</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>237.9</u>	<u>6,664.7</u>	<u>92,292.4</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>795,432</u>	<u>25,253,119</u>	<u>344,413,651</u>
10. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>257,429</u>	<u>8,219,846</u>	<u>112,177,967</u>
11. REACTOR SERVICE FACTOR (%)	<u>35.4</u>	<u>77.0</u>	<u>79.7</u>
12. REACTOR AVAILABILITY FACTOR (%)	<u>35.4</u>	<u>77.0</u>	<u>79.7</u>
13. UNIT SERVICE FACTOR (%)	<u>32.0</u>	<u>76.1</u>	<u>77.8</u>
14. UNIT AVAILABILITY FACTOR (%)	<u>32.0</u>	<u>76.1</u>	<u>77.8</u>
15. UNIT CAPACITY FACTOR - Using MDC (%)	<u>27.7</u>	<u>75.0</u>	<u>75.6</u>
16. UNIT CAPACITY FACTOR - Using DER (%)	<u>27.7</u>	<u>75.0</u>	<u>75.6</u>
17. UNIT FORCED OUTAGE RATE (%)	<u>62.1</u>	<u>7.5</u>	<u>13.5</u>

18. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, & DURATION OF EACH): N/A

19. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 01/18/03

AVERAGE DAILY UNIT POWER LEVEL

DOCKETNO. 50-499
UNIT 2
DATE Jan. 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

MONTH DECEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>2</u>	21	<u>0</u>
6	<u>294</u>	22	<u>0</u>
7	<u>894</u>	23	<u>0</u>
8	<u>1110</u>	24	<u>0</u>
9	<u>1210</u>	25	<u>0</u>
10	<u>1261</u>	26	<u>0</u>
11	<u>1272</u>	27	<u>0</u>
12	<u>1244</u>	28	<u>0</u>
13	<u>1212</u>	29	<u>0</u>
14	<u>1272</u>	30	<u>0</u>
15	<u>954</u>	31	<u>0</u>
16	<u>0</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499
 UNIT 2
 DATE Jan. 8, 2003
 COMPLETED BY R.L. Hill
 TELEPHONE 361.972.7667

REPORT MONTH DECEMBER

No.	Date	1 Type	Duration (Hours)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
02-03	021002	S	116.3	C	1	N/A	N/A	N/A	Scheduled outage to allow refueling and steam generator replacement.
02-04	021215	F	389.9	A	2	02-02-005	TA	TRB	Reactor manually tripped due to a sudden high main turbine vibration. After opening the turbine and condenser, one last row blade on low-pressure (LP) rotor 22 had separated from the rotor causing some collateral damage within LP 22. Numerous last row blade cracks were discovered during visual inspections of the blades on LP 22 and 23. Additional damage was found on stationary blades in 22, the exhaust flow guide and some condenser tubes. Metallurgical examinations found the cracks as a result of high cycle fatigue.

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