



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

January 15, 2001
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10CFR50.71

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Monthly Operating Reports for December 2000

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 2000 and revised Unit 2 Shutdown and Power Reductions data for February 2000. The method of shutting down the reactor for Unit 2 event 00-03 was revised from Automatic Scram (3) to Other (9).

If you should have any questions on this matter, please contact R. L. Hill at (361) 972-7667.

Sincerely,

A handwritten signature in cursive script that reads 'F. H. Mallen'.

F. H. Mallen
Manager, Planning & Controls

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report – December 2000
2) STPEGS Unit 2 Monthly Operating Report – December 2000
3) Revised Unit 2 Unit Shutdowns and Power Reductions – February 2000

Handwritten initials 'JEA4' in a stylized, cursive font.

cc:

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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
DECEMBER 2000
STP NUCLEAR OPERATING COMPANY
NRC DOCKET NO. 50-498
LICENSE NO. NPF-76

Approved By:

G.L. Parkey
G.L. PARKEY

1/13/01
Date

MONTHLY SUMMARY

South Texas Project Unit 1 began the reporting period operating at full power.

On December 16, at 2300 a manual reactor trip was initiated when all four main turbine governor valves closed during preparations to perform the monthly main turbine valve surveillance test. The cause was due to a card failure in the main turbine analog electro-hydraulic control cabinet. The unit was returned to service on December 20, at 1239 and achieved full power on December 21 at 1030.

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE Jan. 3, 2001
 COMPLETED BY R.L. Hill
 TELEPHONE 361 972-7667

OPERATING STATUS

1. REPORTING PERIOD: 12/1/00-12/31/00 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 3800
 MAXIMUM DEPENDABLE CAPACITY (MWe-Net): 1250.6
 DESIGN ELECTRICAL RATING (MWe-Net): 1250.6
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>671.6</u> | <u>6,983.3</u> | <u>81,679.5</u> |
| 6. REACTOR RESERVE SHUTDOWN HOURS | <u>0</u> | <u>0</u> | <u>0</u> |
| 7. HOURS GENERATOR ON LINE | <u>658.4</u> | <u>6,905.8</u> | <u>80,079.3</u> |
| 8. UNIT RESERVE SHUTDOWN HOURS | <u>0</u> | <u>0</u> | <u>0</u> |
| 9. GROSS THERMAL ENERGY GENERATED (MWH) | <u>2,480,561</u> | <u>26,018,605</u> | <u>298,055,065</u> |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) | <u>857,374</u> | <u>8,977,709</u> | <u>101,762,761</u> |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH) | <u>821,686</u> | <u>8,591,895</u> | <u>97,009,958</u> |
| 12. REACTOR SERVICE FACTOR | <u>90.3%</u> | <u>79.5%</u> | <u>75.4%</u> |
| 13. REACTOR AVAILABILITY FACTOR | <u>90.3%</u> | <u>79.5%</u> | <u>75.4%</u> |
| 14. UNIT SERVICE FACTOR | <u>88.5%</u> | <u>78.6%</u> | <u>73.9%</u> |
| 15. UNIT AVAILABILITY FACTOR | <u>88.5%</u> | <u>78.6%</u> | <u>73.9%</u> |
| 16. UNIT CAPACITY FACTOR (Using MDC) | <u>88.3%</u> | <u>78.2%</u> | <u>71.6%</u> |
| 17. UNIT CAPACITY FACTOR (Using Design MWe) | <u>88.3%</u> | <u>78.2%</u> | <u>71.6%</u> |
| 18. UNIT FORCED OUTAGE RATE | <u>11.5%</u> | <u>1.2%</u> | <u>15.6%</u> |
| 19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, & DURATION OF EACH): <u>N/A</u> | | | |
| 20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>N/A</u> | | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
UNIT 1
DATE Jan. 3, 2001
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>1271</u> | 17 | <u>0</u> |
| 2 | <u>1270</u> | 18 | <u>0</u> |
| 3 | <u>1271</u> | 19 | <u>0</u> |
| 4 | <u>1271</u> | 20 | <u>111</u> |
| 5 | <u>1271</u> | 21 | <u>1158</u> |
| 6 | <u>1272</u> | 22 | <u>1270</u> |
| 7 | <u>1272</u> | 23 | <u>1270</u> |
| 8 | <u>1271</u> | 24 | <u>1271</u> |
| 9 | <u>1262</u> | 25 | <u>1272</u> |
| 10 | <u>1270</u> | 26 | <u>1271</u> |
| 11 | <u>1269</u> | 27 | <u>1272</u> |
| 12 | <u>1270</u> | 28 | <u>1271</u> |
| 13 | <u>1269</u> | 29 | <u>1271</u> |
| 14 | <u>1267</u> | 30 | <u>1272</u> |
| 15 | <u>1269</u> | 31 | <u>1271</u> |
| 16 | <u>1212</u> | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT 1
 DATE Jan. 3, 2001
 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 |
|-------|--------|-----------|---------------------|-------------|---|-------------------------------|---------------------|------------------------|---|
| 00-04 | 001216 | F | 85.6 | A | 2 | 1-00-007 | TA | ECBD | <p>A manual reactor trip was initiated when all four main turbine governor valves closed during preparations to perform the monthly main turbine valve surveillance test.</p> <p>The cause was a card failure in the main turbine analog electro-hydraulic control cabinet.</p> |

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

On December 16, a manual reactor trip was initiated when all four main turbine governor valves closed during preparations to perform the monthly main turbine valve surveillance test. A partial load rejection that occurred before the trip produced an initial increase in reactor coolant system temperature and pressure. Pressure reached a maximum value of 2310 psig. The pressurizer spray valves opened fully in response to the pressure increase. Although no direct indications of an open pressurizer PORV were observed, increased temperature in the pressure relief tank and the PORV downstream piping indicate flow through PORV PCV-0655A. This suggests that the PORV stroked far enough to initiate flow but not enough to activate the limit switch. This is consistent with the fact that system pressure approached the PORV setpoint for only a short period (2-4 seconds).

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 2
MONTHLY OPERATING REPORT
DECEMBER 2000
STP NUCLEAR OPERATING COMPANY
NRC DOCKET NO. 50-499
LICENSE NO. NPF-80

Approved By:


G.L. PARKEY


Date

MONTHLY SUMMARY

South Texas Project Unit 2 operated during the reporting period at full power with no unit shutdowns or significant power reductions.

OPERATING DATA REPORT

DOCKETNO. 50-499
 UNIT 2
 DATE Jan. 3, 2001
 COMPLETED BY R.L. Hill
 TELEPHONE 361 972-7667

OPERATING STATUS

1. REPORTING PERIOD: 12/1/00-12/31/00 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3800
 MAXIMUM DEPENDABLE CAPACITY (MWe-Net): 1250.6
 DESIGN ELECTRICAL RATING (MWe-Net): 1250.6
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>8,784.0</u> | <u>79,933.3</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>8,450.4</u> | <u>77,873.7</u> |
| 8. UNIT RESERVE SHUTDOWN HOURS | <u>0</u> | <u>0</u> | <u>0</u> |
| 9. GROSS THERMAL ENERGY GENERATED (MWH) | <u>2,839,024</u> | <u>32,181,066</u> | <u>290,121,528</u> |
| 10. GROSS ELECTRICAL ENERGY GENERATED (MWH) | <u>980,169</u> | <u>11,031,181</u> | <u>98,865,044</u> |
| 11. NET ELECTRICAL ENERGY GENERATED (MWH) | <u>939,416</u> | <u>10,557,216</u> | <u>94,420,564</u> |
| 12. REACTOR SERVICE FACTOR | <u>100.0%</u> | <u>100.0%</u> | <u>79.0%</u> |
| 13. REACTOR AVAILABILITY FACTOR | <u>100.0%</u> | <u>100.0%</u> | <u>79.0%</u> |
| 14. UNIT SERVICE FACTOR | <u>100.0%</u> | <u>96.2%</u> | <u>77.0%</u> |
| 15. UNIT AVAILABILITY FACTOR | <u>100.0%</u> | <u>96.2%</u> | <u>77.0%</u> |
| 16. UNIT CAPACITY FACTOR (Using MDC) | <u>101.0%</u> | <u>96.1%</u> | <u>74.7%</u> |
| 17. UNIT CAPACITY FACTOR (Using Design MWe) | <u>101.0%</u> | <u>96.1%</u> | <u>74.7%</u> |
| 18. UNIT FORCED OUTAGE RATE | <u>0.0%</u> | <u>2.1%</u> | <u>14.8%</u> |
| 19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, & DURATION OF EACH): | | | |
| | Scheduled 25 day outage to allow refueling to begin on March 7, 2001. | | |
| 20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>N/A</u> | | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKETNO. 50-499
UNIT 2
DATE Jan. 3, 2001
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>1264</u> | 17 | <u>1260</u> |
| 2 | <u>1264</u> | 18 | <u>1258</u> |
| 3 | <u>1264</u> | 19 | <u>1255</u> |
| 4 | <u>1264</u> | 20 | <u>1261</u> |
| 5 | <u>1264</u> | 21 | <u>1258</u> |
| 6 | <u>1264</u> | 22 | <u>1264</u> |
| 7 | <u>1246</u> | 23 | <u>1264</u> |
| 8 | <u>1264</u> | 24 | <u>1266</u> |
| 9 | <u>1265</u> | 25 | <u>1264</u> |
| 10 | <u>1264</u> | 26 | <u>1264</u> |
| 11 | <u>1262</u> | 27 | <u>1263</u> |
| 12 | <u>1264</u> | 28 | <u>1264</u> |
| 13 | <u>1264</u> | 29 | <u>1265</u> |
| 14 | <u>1265</u> | 30 | <u>1265</u> |
| 15 | <u>1264</u> | 31 | <u>1265</u> |
| 16 | <u>1263</u> | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499
 UNIT 2
 DATE Jan. 3, 2001
 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.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT 2
 DATE Jan. 3, 2001
 COMPLETED BY R.L. Hill
 TELEPHONE 361 972-7667

REPORT MONTH FEBRUARY

| 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 |
|-------|--------|-----------|---------------------|-------------|---|-------------------------------|---------------------|------------------------|---|
| 00-02 | 000204 | F | 109.6 | A | 1 | N/A | TK | PSF | Unit removed from service to repair a controlled hydrogen leak in the main generator. |
| 00-03 | 000209 | F | 21.9 | H | 9 | 2-00-001 | JE | FI | Main turbine trip caused by an AMSAC actuation. The actuation resulted from a modification that introduced reduced operating margin into the AMSAC design, which caused an actuation under plant conditions normal for power ascension. |

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