



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

January 13, 2005  
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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 2004

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 2004.

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  
General Manager,  
Financial Support

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report – December 2004  
2) STPEGS Unit 2 Monthly Operating Report – December 2004

IE24

cc:  
(paper copy)

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SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 1  
MONTHLY OPERATING REPORT  
DECEMBER 2004  
STP NUCLEAR OPERATING COMPANY  
NRC DOCKET NO. 50-498  
LICENSE NO. NPF-76

Approved By:

  
\_\_\_\_\_  
G.L. PARKEY

1-13-05  
Date

## **MONTHLY SUMMARY**

South Texas Project Unit 1 began the period operating at full power. On December 13, at 2034 reactor power was reduced to isolate a leaking sample fitting inside the Reactor Containment Building biological shield area. The unit was returned to full power on December 16, at 2255.

## OPERATING DATA REPORT

DOCKET NO. 50-498  
 UNIT 1  
 DATE Jan. 11, 2005  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361-972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 12/1/04 - 12/31/04 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>8,728.9</u>    | <u>112,744.4</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>8,712.8</u>    | <u>111,040.3</u>   |
| 8. UNIT RESERVE SHUTDOWN HOURS            | <u>0</u>         | <u>0</u>          | <u>0</u>           |
| 9. GROSS THERMAL ENERGY GENERATED (MWH)   | <u>2,777,096</u> | <u>33,574,601</u> | <u>416,542,058</u> |
| 10. NET ELECTRICAL ENERGY GENERATED (MWH) | <u>921,161</u>   | <u>11,103,576</u> | <u>136,178,413</u> |
| 11. REACTOR SERVICE FACTOR (%)            | <u>100.0</u>     | <u>99.4</u>       | <u>78.6</u>        |
| 12. REACTOR AVAILABILITY FACTOR (%)       | <u>100.0</u>     | <u>99.4</u>       | <u>78.6</u>        |
| 13. UNIT SERVICE FACTOR (%)               | <u>100.0</u>     | <u>99.2</u>       | <u>77.5</u>        |
| 14. UNIT AVAILABILITY FACTOR (%)          | <u>100.0</u>     | <u>99.2</u>       | <u>77.5</u>        |
| 15. UNIT CAPACITY FACTOR - Using MDC (%)  | <u>99.0</u>      | <u>101.1</u>      | <u>76.0</u>        |
| 16. UNIT CAPACITY FACTOR - Using DER (%)  | <u>99.0</u>      | <u>101.1</u>      | <u>76.0</u>        |
| 17. UNIT FORCED OUTAGE RATE (%)           | <u>0.0</u>       | <u>0.8</u>        | <u>13.8</u>        |

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

Scheduled 30-day outage to allow scheduled refueling to begin on March 9, 2005.

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. 11, 2005  
COMPLETED BY R.L. Hill  
TELEPHONE 361-972-7667

## MONTH DECEMBER

| DAY | AVERAGE DAILY POWER<br>LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER<br>LEVEL<br>(MWe-Net) |
|-----|---|-----|---|
| 1   | <u>1288</u>                               | 17  | <u>1287</u>                               |
| 2   | <u>1289</u>                               | 18  | <u>1289</u>                               |
| 3   | <u>1289</u>                               | 19  | <u>1290</u>                               |
| 4   | <u>1288</u>                               | 20  | <u>1290</u>                               |
| 5   | <u>1286</u>                               | 21  | <u>1288</u>                               |
| 6   | <u>1286</u>                               | 22  | <u>1287</u>                               |
| 7   | <u>1288</u>                               | 23  | <u>1287</u>                               |
| 8   | <u>1286</u>                               | 24  | <u>1288</u>                               |
| 9   | <u>1285</u>                               | 25  | <u>1288</u>                               |
| 10  | <u>1288</u>                               | 26  | <u>1289</u>                               |
| 11  | <u>1289</u>                               | 27  | <u>1289</u>                               |
| 12  | <u>1287</u>                               | 28  | <u>1288</u>                               |
| 13  | <u>1212</u>                               | 29  | <u>1287</u>                               |
| 14  | <u>463</u>                                | 30  | <u>1286</u>                               |
| 15  | <u>694</u>                                | 31  | <u>1286</u>                               |
| 16  | <u>1244</u>                               |     |   |

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

DOCKET NO. 50-498  
 UNIT 1  
 DATE Jan. 11, 2005  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361-972-7667

REPORT MONTH DECEMBER

| No.   | Date   | <sup>1</sup><br>Type | Duration<br>(Hours) | <sup>2</sup><br>Reason | <sup>3</sup><br>Method of<br>Shutting<br>Down<br>Reactor | Licensee<br>Event<br>Report # | <sup>4</sup><br>System<br>Code | <sup>5</sup><br>Component<br>Code | Cause & Corrective Action to Prevent Recurrence   |
|-------|--------|----------------------|---------------------|------------------------|--|-------------------------------|--------------------------------|-----------------------------------|---|
| 04-02 | 041213 | S                    | 0.0                 | B                      | N/A  | N/A                           | AB                             | PSF                               | Reactor power reduced to isolate a leaking sample fitting inside the Reactor Containment Building biological shield area. |

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

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

<sup>4</sup>  
 IEEE 805-1983

<sup>5</sup>  
 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 2004  
STP NUCLEAR OPERATING COMPANY  
NRC DOCKET NO. 50-499  
LICENSE NO. NPF-80

Approved By:

  
G.L. PARKEY

1-13-05  
Date

## **MONTHLY SUMMARY**

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

## OPERATING DATA REPORT

DOCKETNO. 50-499  
 UNIT 2  
 DATE Jan. 11, 2005  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361-972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 12/1/04 – 12/31/04 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>8,138.9</u>    | <u>109,843.4</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>8,121.5</u>    | <u>107,527.0</u>   |
| 8. UNIT RESERVE SHUTDOWN HOURS            | <u>0</u>         | <u>0</u>          | <u>0</u>           |
| 9. GROSS THERMAL ENERGY GENERATED (MWH)   | <u>2,879,271</u> | <u>31,308,422</u> | <u>402,996,528</u> |
| 10. NET ELECTRICAL ENERGY GENERATED (MWH) | <u>955,184</u>   | <u>10,304,098</u> | <u>131,402,275</u> |
| 11. REACTOR SERVICE FACTOR (%)            | <u>100.0</u>     | <u>92.7</u>       | <u>80.6</u>        |
| 12. REACTOR AVAILABILITY FACTOR (%)       | <u>100.0</u>     | <u>92.7</u>       | <u>80.6</u>        |
| 13. UNIT SERVICE FACTOR (%)               | <u>100.0</u>     | <u>92.5</u>       | <u>78.9</u>        |
| 14. UNIT AVAILABILITY FACTOR (%)          | <u>100.0</u>     | <u>92.5</u>       | <u>78.9</u>        |
| 15. UNIT CAPACITY FACTOR - Using MDC (%)  | <u>102.7</u>     | <u>93.8</u>       | <u>77.1</u>        |
| 16. UNIT CAPACITY FACTOR - Using DER (%)  | <u>102.7</u>     | <u>93.8</u>       | <u>77.1</u>        |
| 17. UNIT FORCED OUTAGE RATE (%)           | <u>0.0</u>       | <u>0.5</u>        | <u>13.0</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: N/A

**AVERAGE DAILY UNIT POWER LEVEL**

DOCKETNO. 50-499  
UNIT 2  
DATE Jan. 11, 2005  
COMPLETED BY R.L. Hill  
TELEPHONE 361-972-7667

MONTH DECEMBER

| DAY | AVERAGE DAILY POWER<br>LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER<br>LEVEL<br>(MWe-Net) |
|-----|---|-----|---|
| 1   | <u>1282</u>                               | 17  | <u>1285</u>                               |
| 2   | <u>1284</u>                               | 18  | <u>1285</u>                               |
| 3   | <u>1284</u>                               | 19  | <u>1285</u>                               |
| 4   | <u>1283</u>                               | 20  | <u>1285</u>                               |
| 5   | <u>1282</u>                               | 21  | <u>1284</u>                               |
| 6   | <u>1282</u>                               | 22  | <u>1284</u>                               |
| 7   | <u>1284</u>                               | 23  | <u>1284</u>                               |
| 8   | <u>1284</u>                               | 24  | <u>1285</u>                               |
| 9   | <u>1284</u>                               | 25  | <u>1284</u>                               |
| 10  | <u>1284</u>                               | 26  | <u>1283</u>                               |
| 11  | <u>1284</u>                               | 27  | <u>1284</u>                               |
| 12  | <u>1284</u>                               | 28  | <u>1285</u>                               |
| 13  | <u>1285</u>                               | 29  | <u>1284</u>                               |
| 14  | <u>1285</u>                               | 30  | <u>1284</u>                               |
| 15  | <u>1283</u>                               | 31  | <u>1281</u>                               |
| 16  | <u>1283</u>                               |     |   |

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499  
 UNIT 2  
 DATE Jan. 11, 2005  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361-972-7667

### REPORT MONTH DECEMBER

| No.  | Date | 1<br>Type | Duration<br>(Hours) | 2<br>Reason | 3<br>Method of<br>Shutting<br>Down<br>Reactor | Licensee<br>Event<br>Report # | 4<br>System<br>Code | 5<br>Component<br>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.**