



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

January 13, 2000  
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File No. G02  
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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, 1999

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, 1999.

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

Sincerely,

M.A. McBurnett  
Director, Quality & Licensing

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report – December, 1999  
2) STPEGS Unit 2 Monthly Operating Report – December, 1999

JE 24/1

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U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
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SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 1  
MONTHLY OPERATING REPORT  
DECEMBER 1999  
STP NUCLEAR OPERATING COMPANY  
NRC DOCKET NO. 50-498  
LICENSE NO. NPF-76

Approved By:

  
G.L. PARKEY

  
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. 10, 2000  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 12/1/99-12/31/99 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>7,900.1</u>	<u>74,696.2</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>7,858.9</u>	<u>73,173.5</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,838,657</u>	<u>29,558,237</u>	<u>272,036,460</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>978,314</u>	<u>10,085,800</u>	<u>92,785,052</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>938,393</u>	<u>9,645,372</u>	<u>88,418,063</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>90.2%</u>	<u>75.1%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>90.2%</u>	<u>75.1%</u>
14. UNIT SERVICE FACTOR	<u>100.0%</u>	<u>89.7%</u>	<u>73.5%</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0%</u>	<u>89.7%</u>	<u>73.5%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>100.9%</u>	<u>88.0%</u>	<u>71.1%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>100.9%</u>	<u>88.0%</u>	<u>71.1%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>1.4%</u>	<u>16.7%</u>

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

Scheduled 70-day outage to allow refueling and steam generator replacement to begin on March 1, 2000.

20. 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. 10, 2000  
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>1255</u>	17	<u>1263</u>
2	<u>1253</u>	18	<u>1266</u>
3	<u>1254</u>	19	<u>1266</u>
4	<u>1254</u>	20	<u>1267</u>
5	<u>1254</u>	21	<u>1266</u>
6	<u>1255</u>	22	<u>1266</u>
7	<u>1255</u>	23	<u>1266</u>
8	<u>1256</u>	24	<u>1266</u>
9	<u>1254</u>	25	<u>1267</u>
10	<u>1254</u>	26	<u>1267</u>
11	<u>1254</u>	27	<u>1267</u>
12	<u>1254</u>	28	<u>1266</u>
13	<u>1259</u>	29	<u>1265</u>
14	<u>1266</u>	30	<u>1265</u>
15	<u>1268</u>	31	<u>1265</u>
16	<u>1268</u>		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498  
 UNIT 1  
 DATE Jan. 10, 2000  
 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 1999  
STP NUCLEAR OPERATING COMPANY  
NRC DOCKET NO. 50-499  
LICENSE NO. NPF-80

Approved By:

  
G.L. PARKEY

1/13/00  
Date

## MONTHLY SUMMARY

South Texas Project Unit-2 began the reporting period operating at full power.

On December 8, at 0326, plant equipment alignment was being performed in preparation for maintenance on the normal level control valve for feedwater heater 25C. The plant did not respond as expected and a high level condition resulted in the isolation of condensate flow through the low-pressure feedwater heaters. Reactor power was subsequently reduced to 40-percent to establish stable conditions in the unit and return the feedwater heaters to service. Repairs were completed and the unit was returned to full power on December 9, at 0901.

## OPERATING DATA REPORT

DOCKETNO. 50-499  
 UNIT 2  
 DATE Jan. 10, 2000  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 12/1/99-12/31/99 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>8,147.8</u>	<u>71,149.3</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>8,035.2</u>	<u>69,423.3</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,795,693</u>	<u>30,040,095</u>	<u>257,940,462</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>962,635</u>	<u>10,241,990</u>	<u>87,833,863</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>922,654</u>	<u>9,799,259</u>	<u>83,863,348</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>93.0%</u>	<u>77.0%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>93.0%</u>	<u>77.0%</u>
14. UNIT SERVICE FACTOR	<u>100.0%</u>	<u>91.7%</u>	<u>75.2%</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0%</u>	<u>91.7%</u>	<u>75.2%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>99.2%</u>	<u>89.4%</u>	<u>72.6%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>99.2%</u>	<u>89.4%</u>	<u>72.6%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>1.0%</u>	<u>16.1%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
	N/A		
20. 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. 10, 2000  
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>1253</u>	17	<u>1266</u>
2	<u>1253</u>	18	<u>1260</u>
3	<u>1253</u>	19	<u>1265</u>
4	<u>1253</u>	20	<u>1265</u>
5	<u>1253</u>	21	<u>1264</u>
6	<u>1253</u>	22	<u>1266</u>
7	<u>1230</u>	23	<u>1266</u>
8	<u>746</u>	24	<u>1265</u>
9	<u>1169</u>	25	<u>1265</u>
10	<u>1252</u>	26	<u>1265</u>
11	<u>1252</u>	27	<u>1266</u>
12	<u>1252</u>	28	<u>1266</u>
13	<u>1258</u>	29	<u>1267</u>
14	<u>1263</u>	30	<u>1266</u>
15	<u>1263</u>	31	<u>1265</u>
16	<u>1265</u>		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKETNO. 50-499  
 UNIT 2  
 DATE Jan. 10, 2000  
 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
99-10	991208	F	0.0	A	5	N/A	SJ	LCV	During plant equipment alignment to allow maintenance on the normal level control valve for feedwater heater 25C, a high level condition resulted in the isolation of condensate flow through the low-pressure feedwater heaters. Reactor power was subsequently reduced to 40-percent to establish stable conditions in the unit and return the feedwater heaters to service. Repairs were performed and all feedwater heater 25 series were functionally tested.

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

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IEEE 803-1983

## **PORVS AND SAFETY VALVE SUMMARY**

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