



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

August 12, 1999  
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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 July, 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 July 1999.

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

Sincerely,

F. H. Mallen  
Manager, Planning & Controls

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

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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  
JULY 1999  
STP NUCLEAR OPERATING COMPANY  
NRC DOCKET NO. 50-498  
LICENSE NO. NPF-76

Reviewed By: *G.R. Harrison*  
G.R. HARRISON

8/10/99  
Date

Approved By: *G.L. Parkey*  
*For* G.L. PARKEY

8/10/99  
Date



## MONTHLY SUMMARY

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

## OPERATING DATA REPORT

DOCKET NO. 50-498  
 UNIT 1  
 DATE Aug. 10, 1999  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 7/1/99-7/31/99 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>4,266.5</u>	<u>71,062.6</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>4,234.2</u>	<u>69,548.8</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,839,756</u>	<u>15,765,004</u>	<u>258,243,226</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>966,153</u>	<u>5,370,844</u>	<u>88,070,096</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>923,161</u>	<u>5,132,994</u>	<u>83,905,685</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>83.9%</u>	<u>74.2%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>83.9%</u>	<u>74.2%</u>
14. UNIT SERVICE FACTOR	<u>100.0%</u>	<u>83.2%</u>	<u>72.6%</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0%</u>	<u>83.2%</u>	<u>72.6%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>99.2%</u>	<u>80.7%</u>	<u>70.0%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>99.2%</u>	<u>80.7%</u>	<u>70.0%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>1.4%</u>	<u>17.4%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
NA			
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 Aug. 10, 1999  
COMPLETED BY R.L. Hill  
TELEPHONE 361 972-7667

MONTH JULY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1243</u>	17	<u>1240</u>
2	<u>1244</u>	18	<u>1241</u>
3	<u>1245</u>	19	<u>1240</u>
4	<u>1245</u>	20	<u>1242</u>
5	<u>1244</u>	21	<u>1243</u>
6	<u>1244</u>	22	<u>1243</u>
7	<u>1244</u>	23	<u>1241</u>
8	<u>1242</u>	24	<u>1239</u>
9	<u>1241</u>	25	<u>1237</u>
10	<u>1242</u>	26	<u>1237</u>
11	<u>1243</u>	27	<u>1239</u>
12	<u>1241</u>	28	<u>1237</u>
13	<u>1239</u>	29	<u>1237</u>
14	<u>1239</u>	30	<u>1236</u>
15	<u>1239</u>	31	<u>1238</u>
16	<u>1240</u>		



**UNIT SHUTDOWNS AND POWER REDUCTIONS**

DOCKET NO. 50-498  
 UNIT 1  
 DATE Aug. 10, 1999  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361 972-7667

REPORT MONTH JULY

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

- |   |   |   |                            |                            |
|---|---|---|----------------------------|----------------------------|
| <p>1<br/>F: Forced<br/>S: Scheduled</p> | <p>2<br/>Reason:<br/>A-Equipment Failure (Explain)<br/>B-Maintenance or Test<br/>C-Refueling<br/>D-Regulatory Restriction<br/>E-Operator Training &amp; License Exam<br/>F-Administrative<br/>G-Operational Error (Explain)<br/>H-Other (Explain)</p> | <p>3<br/>Method:<br/>1-Manual<br/>2-Manual Scram<br/>3-Automatic Scram<br/>4-Cont. of Existing<br/>Outage<br/>5-Reduction<br/>9-Other</p> | <p>4<br/>IEEE 805-1983</p> | <p>5<br/>IEEE 803-1983</p> |
|---|---|---|----------------------------|----------------------------|

**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

JULY 1999

STP NUCLEAR OPERATING COMPANY

NRC DOCKET NO. 50-499

LICENSE NO. NPF-80

Reviewed By: *G.R. Harrison*  
G.R. HARRISON

8/10/99  
Date

Approved By: *W. Parkey*  
FOR G.L. PARKEY

8/10/99  
Date

## MONTHLY SUMMARY

South Texas Project Unit-2 began the reporting period operating at full power. On July 9, reactor power was reduced to approximately 87-percent to allow tube leak repairs on feedwater heater 25B. Repairs were completed and the unit was returned to full power on July 12, at 1400.

On July 13, reactor power reduced to approximately 45-percent when Open Loop Auxiliary Cooling Water (OLACW) Pump 21 tripped due to a grounded cable. The loss of OLACW Pump 21 in conjunction with OLACW Pump 23 being out of service for scheduled maintenance left the unit with one of three OLACW pumps operating.

The grounded cable on OLACW Pump 21 was repaired and the unit returned to full power on July 15, at 1100.

## OPERATING DATA REPORT

DOCENT. 50-499  
 UNIT 2  
 DATE Aug. 10, 1999  
 COMPLETED BY R.L. Hill  
 TELEPHONE 361 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 7/1/99-7/31/99 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>5,068.1</u>	<u>68,069.6</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>5,059.9</u>	<u>66,448.0</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,726,071</u>	<u>15,126,376</u>	<u>247,026,742</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>921,319</u>	<u>6,528,718</u>	<u>84,120,591</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>879,979</u>	<u>6,252,583</u>	<u>80,316,672</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>99.6%</u>	<u>76.8%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>99.6%</u>	<u>76.8%</u>
14. UNIT SERVICE FACTOR	<u>100.0%</u>	<u>99.5%</u>	<u>74.9%</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0%</u>	<u>99.5%</u>	<u>74.9%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>94.6%</u>	<u>98.3%</u>	<u>72.4%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>94.6%</u>	<u>98.3%</u>	<u>72.4%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>0.5%</u>	<u>16.7%</u>

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

Scheduled 37-day outage to allow refueling and 10-year in service inspection to begin on October 13, 1999.

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 Aug. 10, 1999  
COMPLETED BY R.L. Hill  
TELEPHONE 361 972-7667

MONTH JULY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1242</u>	17	<u>1234</u>
2	<u>1246</u>	18	<u>1235</u>
3	<u>1242</u>	19	<u>1234</u>
4	<u>1244</u>	20	<u>1234</u>
5	<u>1243</u>	21	<u>1237</u>
6	<u>1243</u>	22	<u>1237</u>
7	<u>1239</u>	23	<u>1236</u>
8	<u>1238</u>	24	<u>1234</u>
9	<u>1193</u>	25	<u>1235</u>
10	<u>1071</u>	26	<u>1235</u>
11	<u>1070</u>	27	<u>1236</u>
12	<u>1175</u>	28	<u>1234</u>
13	<u>949</u>	29	<u>1234</u>
14	<u>490</u>	30	<u>1234</u>
15	<u>1027</u>	31	<u>1235</u>
16	<u>1233</u>		

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

DOCKETNO 50-499  
 UNIT 2  
 DATE Aug. 10, 1999  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

REPORT MONTH JULY

No.	Date	Type	Duration (Hours)	Reason	Method of Shutting Down Reactor	Licensee Event Report #	System C-de	Component Code	Cause & Corrective Action to Prevent Recurrence
99-03	990710	F	0.0	A	5	N/A	SJ	TBG	Reactor power reduced to approximately 87-percent to allow tube leak repairs on feedwater heater 25B.
99-04	990713	F	0.0	A	5	N/A	KV	P	Reactor power reduced to approximately 45-percent when Open Loop Auxiliary Cooling Water (OLACW) Pump 21 tripped due to a grounded cable. The loss of OLACW Pump 21 in conjunction with OLACW Pump 23 being out of service for scheduled maintenance left the unit with one of three OLACW pumps operating.  The grounded cable on OLACW Pump 21 was repaired.

- |   |   |   |                            |                            |
|---|---|---|----------------------------|----------------------------|
| <p>1<br/>F: Forced<br/>S: Scheduled</p> | <p>2<br/>Reason:<br/>A-Equipment Failure (Explain)<br/>B-Maintenance or Test<br/>C-Refueling<br/>D-Regulatory Restriction<br/>E-Operator Training &amp; License Exam<br/>F-Administrative<br/>G-Operational Error (Explain)<br/>H-Other (Explain)</p> | <p>3<br/>Method:<br/>1-Manual<br/>2-Manual Scram<br/>3-Automatic Scram<br/>4-Cont. of Existing Outage<br/>5-Reduction<br/>9-Other</p> | <p>4<br/>IEEE 803-1983</p> | <p>5<br/>IEEE 803-1983</p> |
|---|---|---|----------------------------|----------------------------|

## **PORVS AND SAFETY VALVE SUMMARY**

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