



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

October 15, 1998  
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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 September 1998

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 September 1998.

If you should have any questions on this matter, please contact R. L. Hill at (512) 972-7667.

Sincerely,

F. H. Mallen  
Manager, Planning & Controls

RLH/sl

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report - September 1998  
2) STPEGS Unit 2 Monthly Operating Report - September 1998

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c:

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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

SEPTEMBER 1998

STP NUCLEAR OPERATING COMPANY

NRC DOCKET NO. 50-498

LICENSE NO. NPF-76

Reviewed By:

*Daniel L. Cobb*  
D.L. COBB

*10/13/98*  
Date

Approved By:

*G.L. Parkey*  
G.L. PARKEY

*10/13/98*  
Date

## MONTHLY SUMMARY

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

On September 12, at 0501 the main turbine was removed from service to disconnect the auxiliary transformer to allow repairs. The unit was returned to service at 1523 and achieved full power on September 13, at 1504.

On September 19, at 0500 the main turbine was removed from service to reconnect the auxiliary transformer following repairs. The unit was returned to service at 1457 and achieved full power on September 20, at 1201.

The unit operated for the remainder of the reporting period with no unit shutdowns or significant power reductions.

## OPERATING DATA REPORT

DOCKET NO. 50-498  
 UNIT 1  
 DATE Oct. 12, 1998  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 9/1/98-9/30/98 GROSS HOURS IN REPORTING PERIOD: 720
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>720.0</u>	<u>6,551.0</u>	<u>64,587.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>699.7</u>	<u>6,530.7</u>	<u>63,105.6</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,565,574</u>	<u>24,736,175</u>	<u>234,053,767</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>868,197</u>	<u>8,456,955</u>	<u>79,816,519</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>826,937</u>	<u>8,099,312</u>	<u>76,012,058</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>100.0%</u>	<u>72.9%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>100.0%</u>	<u>72.9%</u>
14. UNIT SERVICE FACTOR	<u>97.2%</u>	<u>99.7%</u>	<u>71.3%</u>
15. UNIT AVAILABILITY FACTOR	<u>97.2%</u>	<u>99.7%</u>	<u>71.3%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>91.8%</u>	<u>98.9%</u>	<u>68.7%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>91.8%</u>	<u>98.9%</u>	<u>68.7%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>0.0%</u>	<u>18.7%</u>

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

Scheduled 40-day outage to allow refueling and 10-year in service inspection to begin on March 27, 1999.

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 Oct. 12, 1998  
COMPLETED BY R.L. Hill  
TELEPHONE 512 972-7667

MONTH SEPTEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1243</u>	17	<u>1250</u>
2	<u>1244</u>	18	<u>1250</u>
3	<u>1240</u>	19	<u>103</u>
4	<u>1242</u>	20	<u>1023</u>
5	<u>1242</u>	21	<u>1242</u>
6	<u>1242</u>	22	<u>1239</u>
7	<u>1242</u>	23	<u>1243</u>
8	<u>1240</u>	24	<u>1243</u>
9	<u>1245</u>	25	<u>1241</u>
10	<u>1247</u>	26	<u>1242</u>
11	<u>1249</u>	27	<u>1241</u>
12	<u>106</u>	28	<u>1242</u>
13	<u>898</u>	29	<u>1241</u>
14	<u>1248</u>	30	<u>1237</u>
15	<u>1248</u>	31	<u>N/A</u>
16	<u>1244</u>		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498  
 UNIT 1  
 DATE Oct. 12, 1998  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

REPORT MONTH SEPTEMBER

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
98-03	980912	S	10.3	B	1	N/A	EA	XFMR	Main turbine removed from service to disconnect the Auxiliary Transformer to allow repairs.
98-04	980919	S	10.0	B	1	N/A	EA	XFMR	Main turbine removed from service to reconnect the Auxiliary Transformer following repairs.

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  
SEPTEMBER 1998  
STP NUCLEAR OPERATING COMPANY  
NRC DOCKET NO. 50-499  
LICENSE NO. NPF-80

Reviewed By: David L. Cobb 10/13/98  
D.L. COBB Date

Approved By: R.E. Masse 10/15/98  
R.E. MASSE Date

## MONTHLY SUMMARY

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

On September 22, at 0932 the unit experienced an automatic reactor trip due to low water level in the 2A steam generator caused by an inadvertently closed feedwater regulating valve. The unit was returned to service on September 23, at 0637 and achieved full power on September 26, at 0706.

On September 27, at 0827 the unit began a reactor power coastdown due to fuel burnup. The process entails a power reduction rate of 1-percent every 36 to 48 hours.

The unit concluded the reporting period operating at 96-percent reactor power.

## OPERATING DATA REPORT

DOCENT. 50-499  
 UNIT 2  
 DATE Oct. 12, 1998  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 9/1/98-9/30/98 GROSS HOURS IN REPORTING PERIOD: 720
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>706.5</u>	<u>6,515.0</u>	<u>61,306.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE	<u>698.9</u>	<u>6,450.7</u>	<u>59,739.0</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,580,964</u>	<u>24,483,520</u>	<u>221,827,030</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>874,448</u>	<u>8,351,818</u>	<u>75,516,797</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>833,625</u>	<u>7,997,943</u>	<u>72,078,120</u>
12. REACTOR SERVICE FACTOR	<u>98.1%</u>	<u>99.5%</u>	<u>75.3%</u>
13. REACTOR AVAILABILITY FACTOR	<u>98.1%</u>	<u>99.5%</u>	<u>75.3%</u>
14. UNIT SERVICE FACTOR	<u>97.1%</u>	<u>98.5%</u>	<u>73.4%</u>
15. UNIT AVAILABILITY FACTOR	<u>97.1%</u>	<u>98.5%</u>	<u>73.4%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>92.6%</u>	<u>97.6%</u>	<u>70.8%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>92.6%</u>	<u>97.6%</u>	<u>70.8%</u>
18. UNIT FORCED OUTAGE RATE	<u>2.9%</u>	<u>1.0%</u>	<u>18.1%</u>

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

Scheduled 21-day refueling outage to begin on October 3, 1998.

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 Oct. 12, 1998  
COMPLETED BY R.L. Hill  
TELEPHONE 512 972-7667

MONTH SEPTEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1240</u>	17	<u>1245</u>
2	<u>1241</u>	18	<u>1246</u>
3	<u>1240</u>	19	<u>1245</u>
4	<u>1237</u>	20	<u>1242</u>
5	<u>1238</u>	21	<u>1255</u>
6	<u>1239</u>	22	<u>460</u>
7	<u>1240</u>	23	<u>269</u>
8	<u>1242</u>	24	<u>654</u>
9	<u>1244</u>	25	<u>1208</u>
10	<u>1245</u>	26	<u>1232</u>
11	<u>1247</u>	27	<u>1218</u>
12	<u>1246</u>	28	<u>1212</u>
13	<u>1247</u>	29	<u>1202</u>
14	<u>1245</u>	30	<u>1186</u>
15	<u>1245</u>	31	<u>N/A</u>
16	<u>1246</u>		

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKETNO. 50-499  
 UNIT 2  
 DATE Oct. 12, 1998  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

REPORT MONTH SEPTEMBER

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
98-02	980922	F	21.1	H	3	2-98-002	SJ	FCV	The unit experienced an automatic reactor trip due to decreased water level in the 2A steam generator. The level decrease followed the inadvertent closure of the 2A main feedwater regulating valve during corrective maintenance on the control circuitry of the 2A low power feedwater regulating valve. Work instructions governing the activity were technically incorrect.  Corrective actions include reviewing other similar work, discussing lessons learned and developing a case study.
98-03	980927	S	0.0	H	5	N/A	N/A	N/A	The unit began a reactor power coastdown due to fuel burnup.

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.