

The Light company

Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

October 9, 1990

ST-HL-AE-3594

File No.: G02

10CFR50.71

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

South Texas Project Electric Generating Station
Units 1 & 2
Docket Nos. STN 50-498 & 50-499
Monthly Operating Reports for September, 1990

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, 1990.

If you should have any questions on this matter, please contact Mr. C. A. Ayala at (512) 972-8628.

M A McBurnett

M. A. McBurnett
Manager,
Nuclear Licensing

RAD/amp

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report - September, 1990
2) STPEGS Unit 2 Monthly Operating Report - September, 1990

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

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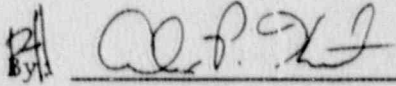
Dr. Joseph M. Hendrie
50 Bellport Lane
Bellport, NY 11713

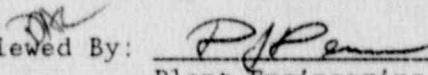
D. K. Lacker
Bureau of Radiation Control
Texas Department of Health
1100 West 49th Street
Austin, TX 78756-3189

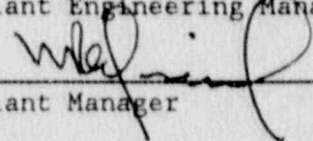
Revised 10/08/90

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SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
SEPTEMBER 1990
HOUSTON LIGHTING AND POWER CO.
NRC DOCKET NO. 50-498
LICENSE NO. NPF-76

Reviewed By:  10/2/90
Supervisor Date

Reviewed By:  10/8/90
Plant Engineering Manager Date

Approved By:  10/8/90
Plant Manager Date

Monthly Summary

STPEGS Unit 1 began the reporting period slightly below 100% reactor power to allow a margin for possible transients due to speed spikes in the steam generator feedwater pumps caused by a bad DC power supply in the 7300 cabinet.

On 9/09/90 a loss of power to Class 1E distribution panel #2 was experienced. The inverter for the power supply failed and could not be repaired during the Technical Specification allowable outage time. The unit was removed from service at 1330 on 9/10/90, the inverter was repaired and the unit returned to service on 9/13/90 at 1220 hours.

During the performance of a feedwater isolation valve (FWIV) surveillance test on 9/29/90 an I&C technician installed a jumper to the wrong terminal causing 1A FWIV to go fully closed. The reactor was manually tripped at 0230 hours. The unit concluded the reporting period in mode 4 recovering from the trip.

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE Oct. 8, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 09/01-09/30 GROSS HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3800
 MAX.DEPEND.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 WAS CRITICAL.....	<u>617.2</u>	<u>4424.2</u>	<u>12671.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>603.7</u>	<u>4127.8</u>	<u>12066.9</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2174774</u>	<u>14941173</u>	<u>43619607</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..	<u>716610</u>	<u>4984340</u>	<u>14714930</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>681516</u>	<u>4709671</u>	<u>13834340</u>
12. REACTOR SERVICE FACTOR.....	<u>85.7%</u>	<u>67.5%</u>	<u>68.8%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>85.7%</u>	<u>67.5%</u>	<u>68.8%</u>
14. UNIT SERVICE FACTOR.....	<u>83.8%</u>	<u>63.0%</u>	<u>65.5%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>83.8%</u>	<u>63.0%</u>	<u>65.5%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>75.7%</u>	<u>57.5%</u>	<u>60.1%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)..	<u>75.7%</u>	<u>57.5%</u>	<u>60.1%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>16.2%</u>	<u>10.6%</u>	<u>9.6%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	Scheduled 70 day refueling outage to begin March 2, 1991.		
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>10/10/90</u>			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
 UNIT 1
 DATE Oct. 8, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

MONTH SEPTEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1212	17	1214
2	1214	18	1202
3	1209	19	1208
4	1209	20	1213
5	1206	21	1214
6	1212	22	1212
7	1215	23	1193
8	1213	24	1153
9	1212	25	1204
10	539	26	1197
11	0	27	1193
12	0	28	1195
13	80	29	91
14	416	30	0
15	898	31	N/A
16	1139		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT 1
 DATE Oct. 8, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

REPORT MONTH SEPTEMBER

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
90-14	900910	F	70.8	A	1	1-90-021	EA	INVT	The unit was removed from service due to the failure of an inverter to the Class 1E electrical distribution panel that could not be repaired during the Technical Specification allowable outage time. The inverter was repaired and the unit was returned to service. Additional corrective actions are addressed in the LER.
90-15	900929	F	45.5	B	2	1-90-023	SJ	ISV	During the performance of a feedwater isolation valve (FWIV) surveillance an I&C technician installed a jumper to the wrong terminal causing the 1A FWIV to go fully closed. The reactor was manually tripped in accordance with the procedure. Recurrence measures will be addressed in the LER.

¹F: Forced
 S: Scheduled

²Reason:
 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)

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

⁴IEEE 805-1983

⁵IEEE 803A-1983

ATTACHMENT
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PORVs and Safety Valves Summary

There were no PORV or Safety Valve challenges during this reporting period.

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 2
MONTHLY OPERATING REPORT
SEPTEMBER 1990
HOUSTON LIGHTING AND POWER CO.
NRC DOCKET NO. 50-499
LICENSE NO. NPF-80

Reviewed By: APLI 10/8/90
Supervisor Date

Reviewed By: DJ 10/8/90
Plant Engineering Manager Date

Approved By: W. J. ... 10/8/90
Plant Manager Date

Monthly Summary

STPEGS began the reporting period at 100% reactor power.

On 9/17/90 at 0330 hours the unit experienced a reactor trip during the performance of a scheduled surveillance test on the reactor trip breakers. The trip occurred when a non-licensed operator inadvertently manipulated the Train "R" reactor trip breaker test pushbutton instead of the Train "S" reactor trip breaker test pushbutton. The surveillance test was satisfactorily completed and the unit was returned to service on 9/18/90 at 2332 hours.

The unit was removed from service on 9/29/90 at 0232 for refueling and scheduled maintenance.

OPERATING DATA REPORT

DOCKET NO. 50-499
 UNIT 2
 DATE Oct. 8, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 09/01-09/30 GROSS HOURS IN REPORTING PERIOD: 720
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3800
 MAX.DEPEND.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 WAS CRITICAL.....	<u>650.7</u>	<u>5397.4</u>	<u>8374.3</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>632.5</u>	<u>4990.1</u>	<u>7836.8</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2361563</u>	<u>18573980</u>	<u>28096356</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..	<u>794860</u>	<u>6274700</u>	<u>9487730</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>755618</u>	<u>5942413</u>	<u>8963587</u>
12. REACTOR SERVICE FACTOR.....	<u>90.4%</u>	<u>82.4%</u>	<u>74.4%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>90.4%</u>	<u>82.4%</u>	<u>74.4%</u>
14. UNIT SERVICE FACTOR.....	<u>87.8%</u>	<u>76.2%</u>	<u>69.6%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>87.8%</u>	<u>76.2%</u>	<u>69.6%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>83.9%</u>	<u>72.5%</u>	<u>63.7%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>83.9%</u>	<u>72.5%</u>	<u>63.7%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>6.2%</u>	<u>22.7%</u>	<u>22.0%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): N/A			
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>12/08/90</u>			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-499
 UNIT 2
 DATE Oct. 8, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

MONTH SEPTEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1231
2	1234
3	1236
4	1236
5	1236
6	1236
7	1238
8	1237
9	1238
10	1238
11	1227
12	1232
13	1237
14	1238
15	1237
16	1235

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	138
18	0
19	896
20	1228
21	1227
22	1222
23	1223
24	1221
25	1222
26	1214
27	1225
28	996
29	0
30	0
31	N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499
 UNIT 2
 DATE Oct. 8, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

REPORT MONTH SEPTEMBER

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
90-12	900917	F	42.0	G	3	2-90-013	JC	BKR	A Reactor/Turbine trip occurred when a non-licensed operator inadvertently manipulated the Train "R" reactor trip test pushbutton instead of the Train "S" reactor trip breaker test pushbutton during surveillance testing. The reactor trip breaker surveillance was satisfactorily completed and the unit was returned to service.
90-13	900929	S	45.5	C	1	N/A	N/A	N/A	Refueling and scheduled maintenance outage.

¹F: Forced
 S: Scheduled

²Reason:
 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)

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

⁴IEEE 805-1983

⁵IEEE 803A-1983

ATTACHMENT
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PORVs and Safety Valves Summary

There were no PORV or Safety Valves challenges during this reporting period.