

# The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas 77001 (713) 228-9211

December 13, 1989

ST-HL-AE-3312

File No.: G02

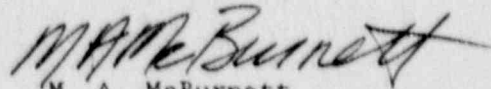
10CFR50.71

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 November, 1989

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 November, 1989.

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



M. A. McBurnett  
Manager  
Support Licensing

MAM/BEM/nl

Attachments: 1) STPEGS Unit 1 Monthly Operating Report - November, 1989  
2) STPEGS Unit 2 Monthly Operating Report - November, 1989

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Houston Lighting & Power Company  
South Texas Project Electric Generating Station

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Revised 11/15/89

L4/NRC/

SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 1  
MONTHLY OPERATING REPORT  
NOVEMBER 1989  
HOUSTON LIGHTING AND POWER CO.  
NRC DOCKET NO. 50-498  
LICENSE NO. NPF-76

Reviewed By:	<u>PH Al P. 7/2</u>	<u>12/6/89</u>
	General Supervisor	Date
Reviewed By:	<u>DM J. Jordan</u>	<u>12/7/89</u>
	Plant Engineering Manager	Date
Approved By:	<u>W. H. Kinsey</u>	<u>12/7/89</u>
	Plant Manager	Date

Monthly Summary

STPEGS Unit 1 began the reporting period at ~95% reactor power completing maintenance on a feedwater pump.

Reactor power was restored to 100% on 11/5/89 at 0500. On 11/19/89 at 0156 a Notification of Unusual Event ( NOUE ) was declared due to the initiation of a Technical Specification required shutdown when the allowed out-of-service time for the Train A Essential Cooling Water system was exceeded. Train "A" was restored to service and the NOUE was terminated at 0323. No reduction in reactor power was required.

The unit concluded the reporting period at 100% reactor power.

**OPERATING DATA REPORT**

DOCKET NO. 50-498  
 UNIT 1  
 DATE Dec. 4, 1989  
 COMPLETED BY A. P. Kent  
 TELEPHONE 512/972-7786

**OPERATING STATUS**

1. REPORTING PERIOD: 11/01-11/30 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>720.0</u>	<u>5221.3</u>	<u>7718.2</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>720.0</u>	<u>5052.9</u>	<u>7458.9</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2728544</u>	<u>18102840</u>	<u>26917362</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>936710</u>	<u>6153080</u>	<u>9145310</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>894457</u>	<u>5784792</u>	<u>8576284</u>
12. REACTOR SERVICE FACTOR.....	<u>100%</u>	<u>65.1%</u>	<u>69.5%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>100%</u>	<u>65.1%</u>	<u>69.5%</u>
14. UNIT SERVICE FACTOR.....	<u>100%</u>	<u>63.0%</u>	<u>67.1%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>100%</u>	<u>63.0%</u>	<u>67.1%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>99.3%</u>	<u>57.7%</u>	<u>61.7%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>99.3%</u>	<u>57.7%</u>	<u>61.7%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0%</u>	<u>4.2%</u>	<u>6.6%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): Scheduled 55 day refueling outage to begin April 7, 1990.			
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>N/A</u>			

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498  
UNIT 1  
DATE Dec. 4, 1989  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

MONTH NOVEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1201</u>	17	<u>1248</u>
2	<u>1200</u>	18	<u>1244</u>
3	<u>1205</u>	19	<u>1244</u>
4	<u>1217</u>	20	<u>1248</u>
5	<u>1244</u>	21	<u>1249</u>
6	<u>1256</u>	22	<u>1249</u>
7	<u>1255</u>	23	<u>1252</u>
8	<u>1260</u>	24	<u>1234</u>
9	<u>1260</u>	25	<u>1237</u>
10	<u>1266</u>	26	<u>1246</u>
11	<u>1260</u>	27	<u>1247</u>
12	<u>1256</u>	28	<u>1244</u>
13	<u>1249</u>	29	<u>1237</u>
14	<u>1245</u>	30	<u>1225</u>
15	<u>1244</u>	31	<u>N/A</u>
16	<u>1249</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498  
 UNIT 1  
 DATE Dec. 4, 1989  
 COMPLETED BY A.P. Kent  
 TELEPHONE 512/972-7786

REPORT MONTH NOVEMBER

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System <sup>4</sup> Code	Component <sup>5</sup> Code	Cause & Corrective Action to Prevent Recurrence
THERE WERE NO UNIT SHUTDOWNS OR POWER REDUCTIONS DURING THIS REPORTING PERIOD.									

<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 803A-1983

ATTACHMENT  
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PORVs and Safety Valves Summary

No PORVs or Safety Valves were challenged during this reporting period.



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SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 2  
MONTHLY OPERATING REPORT  
NOVEMBER 1989  
HOUSTON LIGHTING AND POWER CO.  
NRC DOCKET NO. 50-499  
LICENSE NO. NPF-80

Reviewed By: *Kurt Al P 9 L I* 12/6/89  
General Supervisor Date  
Reviewed By: *Mr Jordan* 12/7/89  
Plant Engineering Manager Date  
Approved By: *W H Kensing* 12/7/89  
Plant Manager Date

Monthly Summary

STPEGS Unit 2 began the reporting period at 100% power.

On 11/04/89 the unit was shutdown for Bottom Mounted Instrumentation and Turbine Inspections.

At -1000 on 11/28/89 Diesel Generator #22 was at full load during the performance of its 24 hour load test when it tripped with no indication of unit shutdown. Pieces of the 4L and 4R pistons and connecting rod had been thrown from the engine along with other pieces of metal. The impact of this event will extend the current planned outage.

The unit concluded the report period shutdown for Bottom Mounted Instrumentation and Turbine Inspections.

OPERATING DATA REPORT

DOCKET NO. 50-499  
 UNIT 2  
 DATE Dec. 6, 1989  
 COMPLETED BY A. P. Kent  
 TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 11/01-11/30 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
2. 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>76.2</u>	<u>2976.9</u>	<u>2976.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>75.0</u>	<u>2846.7</u>	<u>2846.7</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>263923</u>	<u>9522377</u>	<u>9522377</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>89000</u>	<u>3213030</u>	<u>3213030</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>79832</u>	<u>3026675</u>	<u>3026675</u>
12. REACTOR SERVICE FACTOR.....	<u>10.6%</u>	<u>75.2%</u>	<u>75.2%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>10.6%</u>	<u>75.2%</u>	<u>75.2%</u>
14. UNIT SERVICE FACTOR.....	<u>10.4%</u>	<u>71.9%</u>	<u>71.9%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>10.4%</u>	<u>71.9%</u>	<u>71.9%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>8.9%</u>	<u>61.1%</u>	<u>61.1%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>8.9%</u>	<u>61.1%</u>	<u>61.1%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0%</u>	<u>12.7%</u>	<u>12.7%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): None			
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>01/08/90</u>			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-499  
 UNIT 2  
 DATE Dec. 6, 1989  
 COMPLETED BY A.P. Kent  
 TELEPHONE 512/972-7786

MONTH NOVEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1239</u>
2	<u>1239</u>
3	<u>1062</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>N/A</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499  
 UNIT 2  
 DATE Dec. 6, 1989  
 COMPLETED BY A.P. Kent  
 TELEPHONE 512/972-7786

REPORT MONTH NOVEMBER

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
89-11	891104	S	645.0	B	1	N/A	N/A	N/A	Manual shutdown for Bottom Mounted Instrumentation and Turbine Inspections.

<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 803A-1983

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PORVs and Safety Valves Summary

No PORVs or Safety Valves were challenged during this reporting period.