

# The Light company

Houston Lighting & Power

South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

May 11, 1992

ST-HL-AE-4091

File No.: G02

10CFR50.71

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

South Texas Project  
Units 1 & 2  
Docket Nos. STN 50-498 & 50-499  
Monthly Operating Reports for April, 1992

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 April, 1992. Please note that the cumulative total has been adjusted for the Operating Data for Unit 1 (Number of hours reactor was critical) due to an error for October 23, 1991. The correction has increased the cumulative total by 11.0 hours.

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

*William J. Jump*  
William J. Jump  
Manager  
Nuclear Licensing

MKJ/lf

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report -  
April, 1992  
2) STPEGS Unit 2 Monthly Operating Report -  
April, 1992

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KREF192128001.1&2

A Subsidiary of Houston Industries Incorporated

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*JEH*

cc:

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Revised 10/11/91

L4/NRC/

SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 1  
MONTHLY OPERATING REPORT  
APRIL 1992  
HOUSTON LIGHTING AND POWER CO.  
NRC DOCKET NO. 50-498  
LICENSE NO. LPP-76

Reviewed By: *[Signature]* 5-7-92  
Supervisor Date  
Reviewed By: *D.C. Logan* 5-8-92  
Plant Engineering Manager Date  
Approved: *[Signature]* 5/8/92  
Plant Manager Date

Monthly Summary

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STPEGS Unit 1 began the operating period at 100% reactor power.

On 4/5/92 at 1654 the unit was removed from service for a planned outage to perform scheduled maintenance. The unit was returned to service on 4/13/92 at 1236 and achieved 100% reactor power on 4/15/92 at 0036.

The reporting period was concluded with the unit operating at full power.

OPERATING DATA REPORT

DOCKET NO. 50-498  
 UNIT 1  
 DATE May 6, 1992  
 COMPLETED BY A. P. Kent  
 TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 04/01-04/30 GROSS HOURS IN REPORTING PERIOD: 719
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>539.4</u>	<u>2648.0</u>	<u>22678.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>532.3</u>	<u>2631.5</u>	<u>21843.7</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>1965083</u>	<u>9925452</u>	<u>80079774</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH) ..	<u>666570</u>	<u>3384690</u>	<u>27092690</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>636350</u>	<u>3242506</u>	<u>25570375</u>
12. REACTOR SERVICE FACTOR.....	<u>75.0%</u>	<u>91.2%</u>	<u>70.3%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>75.0%</u>	<u>91.2%</u>	<u>70.3%</u>
14. UNIT SERVICE FACTOR.....	<u>74.0%</u>	<u>90.6%</u>	<u>67.7%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>74.0%</u>	<u>90.5%</u>	<u>67.7%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>70.8%</u>	<u>89.3%</u>	<u>63.3%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe) ..	<u>70.8%</u>	<u>89.3%</u>	<u>63.3%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.0%</u>	<u>3.1%</u>	<u>13.1%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	Scheduled 62 day refueling outage to begin September 19, 1992.		
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	N/A		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498  
UNIT 1  
DATE May. 6, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

MONTH APRIL

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1217
2	1217
3	1216
4	1214
5	555
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	197
14	108
15	1241
16	1250

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1254
18	1252
19	1254
20	1255
21	1255
22	1246
23	1247
24	1251
25	1250
26	1252
27	1254
28	1254
29	1255
30	1253
31	N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498  
 UNIT 1  
 DATE May. 6, 1977  
 COMPLETED BY A.P. Kent  
 TELEPHONE 512/972-7786

REPORT MONTH APRIL

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
92-02	920405	S	186.7	B	1	N/A	N/A	N/A	Scheduled maintenance outage.

<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)

<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 C3A-1983

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ATTACHMENT /  
ST-HL-AE-409 /  
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PORVs and Safety Valves Summary

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



SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 2  
MONTHLY OPERATING REPORT  
APRIL 1992  
HOUSTON LIGHTING AND POWER CO.  
NRC DOCKET NO. 50-499  
LICENSE NO. NPF-80

Reviewed By: *Al P. Kelly* 5-7-92  
Supervisor Date  
Reviewed By: *D. J. Logan* 5-8-92  
Plant Engineering Manager Date  
Approved By: *W. J. [Signature]* 5/8/92  
Plant Manager Date

Monthly Summary

ATTACHMENT 2  
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STPEGS Unit 2 began the reporting period at 65% reactor power during a power escalation after recovering from a tripped main feedwater pump. The unit achieved 100% reactor power on 4/1/92 at 0600.

On 4/14/92 reactor power was reduced to 28% to allow corrective maintenance on the steam generator feedwater pumps. During power ascension, reactor power was held at 48% to allow corrective maintenance on a feedwater booster pump. The unit was returned to 100% reactor power on 4/21/92 at 1000.

The unit concluded the reporting period at full power.

OPERATING DATA REPORT

DOCKET NO. 50-499  
 UNIT 2  
 DATE May 6, 1992  
 COMPLETED BY A. P. Kent  
 TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 04/01-04/30 GROSS HOURS IN REPORTING PERIOD: 719
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>719.0</u>	<u>2754.6</u>	<u>18177.2</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>719.0</u>	<u>2717.3</u>	<u>17199.5</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2374113</u>	<u>9740404</u>	<u>62133675</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	<u>72920</u>	<u>3313410</u>	<u>20980770</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>762359</u>	<u>3170214</u>	<u>19874217</u>
12. REACTOR SERVICE FACTOR.....	<u>100.0%</u>	<u>94.9%</u>	<u>72.3%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>100.0%</u>	<u>94.9%</u>	<u>72.3%</u>
14. UNIT SERVICE FACTOR.....	<u>100.0%</u>	<u>93.6%</u>	<u>68.4%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>100.0%</u>	<u>93.6%</u>	<u>68.4%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>84.8%</u>	<u>87.3%</u>	<u>63.2%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe).....	<u>84.8%</u>	<u>87.3%</u>	<u>63.2%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.0%</u>	<u>6.4%</u>	<u>15.0%</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>N/A</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-499  
UNIT 2  
DATE May 6, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

MONTH APRIL

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1207
2	1251
3	1228
4	1214
5	1255
6	1251
7	1248
8	1247
9	1246
10	1228
11	1233
12	1230
13	1236
14	736
15	243
16	253

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	524
18	532
19	538
20	595
21	1168
22	1220
23	1231
24	1252
25	1251
26	1252
27	1251
28	1207
29	1242
30	1250
31	N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499  
 UNIT 2  
 DATE May 6, 1992  
 COMPLETED BY A.P. Kent  
 TELEPHONE 514/972-7786

REPORT MONTH APRIL

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
92-05	920414	F	0.0	A	5	N/A	SJ	CCN	Reactor power was reduced to 28% to determine the cause of the steam generator feedwater pumps erratic speed control responses. A loose terminal was discovered on a power supply common to all the feedwater pumps. The terminal was tightened.

<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 2  
 ST-HL-AE-409/  
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PORVs and Safety Valves Summary

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