

# The Light company

Houston Lighting & Power

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

February 14, 1992  
ST-HL-AE-4007  
File No.: G02  
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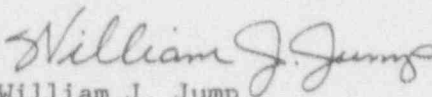
U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

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

HL&P has revised its methodology for calculation of net generation during unit shutdown periods. The revised methodology complies with the guidance provided in Regulatory Guide 1.16 Revision 4 in accordance with the South Texas UFSAR commitment.

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

  
William J. Jump  
Manager  
Nuclear Licensing

MKJ/amp

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

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RREF:92042001.1&2

A Subsidiary of Houston Industries Incorporated

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Houston Lighting & Power Company  
South Texas Project Electric Generating Station

ST-HL-AE- 4007  
File No.: G02  
Page 2

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Revised 10/11/91

L4/NRC/

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

Reviewed By: AL P. Galt

Supervisor

2-5-92

Date

Reviewed by: J. C. Lanza

Plant Engineering Manager

2-6-92

Date

Approved By: W. J. [Signature]

Plant Manager

2/10/92

Date

Monthly Summary

STPEGS 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 Feb. 3, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

## OPERATING STATUS

1. REPORTING PERIOD: 01/01-01/31 GROSS HOURS IN REPORTING PERIOD: 744
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>744.0</u>	<u>744.0</u>	<u>20763.9</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>744.0</u>	<u>19956.3</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2837741</u>	<u>2837741</u>	<u>72992063</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>974080</u>	<u>974080</u>	<u>24682080</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>934194</u>	<u>934194</u>	<u>23262563</u>
12. REACTOR SERVICE FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>68.9%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>68.9%</u>
14. UNIT SERVICE FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>66.3%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>66.3%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>100.4%</u>	<u>100.4%</u>	<u>61.8%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>100.4%</u>	<u>100.4%</u>	<u>61.8%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.0%</u>	<u>0.0%</u>	<u>13.8%</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:			N/A



# AVERAGE DAILY UNIT POWER LEVEL

ATTACHMENT 1  
ST-HL-AE-4001  
PAGE 4 OF 6

DOCKET NO. 50-498  
UNIT 1  
DATE Feb. 3, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

MONTH JANUARY

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	1260
2	1259
3	1260
4	1260
5	1260
6	1259
7	1258
8	1258
9	1257
10	1257
11	1257
12	1257
13	1258
14	1257
15	1257
16	1255

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

17	1256
18	1255
19	1258
20	1256
21	1258
22	1258
23	1253
24	1252
25	1251
26	1250
27	1248
28	1232
29	1255
30	1257
31	1258

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498UNIT 1DATE Feb. 3, 1992COMPLETED BY A.P. KentTELEPHONE 512/972-7786REPORT MONTH JANUARY

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
THERE WERE NO UNIT SHUTDOWNS OR SIGNIFICANT POWER REDUCTIONS DURING THE 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 1  
ST-HI-AE-4007  
PAGE 5 OF 6

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  
JANUARY 1992  
HOUSTON LIGHTING AND POWER CO.  
NRC DOCKET NO. 50-499  
LICENSE NO. NPF-80

Reviewed By:

C. P. 9/1

Supervisor

2-13-92

Date

Reviewed By:

D. G. Ligon

Plant Engineering Manager

2-13-92

Date

Approved By:

W. L. Ligon

Plant Manager

2/13/92

Date

Monthly Summary

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

On 1/22/92 at 0910 the unit automatically shutdown when Control Rod H-6 dropped causing a power range rate trip. The control rod dropped when a diode failed in the Stationary Gripper Coil Circuit of the Rod Control System. The diode was replaced along with a number of other diodes of the same lot. All blocking diodes were tested and were within the required manufacturers operating specifications. Additional testing was done by Westinghouse resulting in no additional findings relating to the failure. The outage was extended to repair a steam leak from an 8-3/4 inch handhole cover on the 2D Steam Generator. The handhole cover and gasket were replaced.

The unit was returned to service on 1/28/92 at 1910 and concluded the reporting period at 100% reactor power.

## OPERATING DATA REPORT

DOCKET NO. 50-499  
UNIT 2  
DATE Feb. 3, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

## OPERATING STATUS

1. REPORTING PERIOD: 01/01-01/31 GROSS HOURS IN REPORTING PERIOD: 744
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>617.9</u>	<u>617.9</u>	<u>16040.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>590.0</u>	<u>590.0</u>	<u>15072.2</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt)....	<u>2191813</u>	<u>2191813</u>	<u>54585084</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..	<u>745390</u>	<u>745390</u>	<u>18412750</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>714131</u>	<u>714131</u>	<u>17418134</u>
12. REACTOR SERVICE FACTOR.....	<u>83.0%</u>	<u>83.0%</u>	<u>69.8%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>83.0%</u>	<u>83.0%</u>	<u>69.8%</u>
14. UNIT SERVICE FACTOR.....	<u>79.3%</u>	<u>79.3%</u>	<u>65.6%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>79.3%</u>	<u>79.3%</u>	<u>65.6%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>76.8%</u>	<u>76.8%</u>	<u>60.6%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)..	<u>76.8%</u>	<u>76.8%</u>	<u>60.6%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>20.7%</u>	<u>20.7%</u>	<u>16.6%</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 Feb. 3, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

MONTH JANUARY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1234
2	1244
3	1241
4	1254
5	1251
6	1245
7	1258
8	1258
9	1257
10	1258
11	1258
12	1256
13	1256
14	1258
15	1258
16	1256

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1257
18	1256
19	1256
20	1258
21	1256
22	452
23	0
24	0
25	0
26	0
27	0
28	0
29	500
30	1237
31	1244

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499UNIT 2DATE Feb. 3, 1992COMPLETED BY A.P. KentTELEPHONE 512/972-7786REPORT MONTH JANUARY

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
92-01	920122	F	154.0	A	3	2-92-001	AA	BLK	<p>The unit automatically shutdown when Control Rod H-6 dropped causing a power range rate trip. The control rod dropped when a diode failed in the Stationary Gripper Coil Circuit of the Rod Control System. The diode was replaced along with a number of other diodes of the same lot. All blocking diodes were tested and were within the required manufacturers operating specifications. Additional testing was done by Westinghouse resulting in no additional findings relating to the failure. Corrective actions to prevent recurrence will be discussed in the LER.</p> <p>The outage was extended to repair a steam leak from an 8 3/4 inch handhole cover on the 2D Steam Generator. The handhole cover and gasket were replaced.</p>

<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-4007  
PAGE 23 OF 46



ATTACHMENT 2

ST-HL-AE-4007

PAGE 6 OF 6

PORVs and Safety Valves Summary

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