

# The Light company

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

January 15, 1997  
ST-HL-AE-005552  
File No. G02  
STI30159592  
10CFR50.71

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 December 1996

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 December 1996.

If you should have any questions on this matter, please contact D. M. Bergendahl at (512) 972-7688.

Sincerely,



M. A. McBurnett  
Manager, Nuclear Licensing

RLH/sl

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report - December 1996  
2) STPEGS Unit 2 Monthly Operating Report - December 1996

9701240174 961231  
PDR ADOCK 05000498  
R PDR

Project Manager on Behalf of the Participants in the South Texas Project

1/1  
1024

Houston Lighting & Power Company  
South Texas Project Electric Generating Station

ST-HL-AE-5552  
File No.: G02  
Page 2

Leonard J. Callan  
Regional Administrator, Region IV  
U. S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Thomas W. Alexion  
Project Manager, Mail Code 13H3  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

David P. Loveless  
Sr. Resident Inspector  
c/o U. S. Nuclear Regulatory Comm.  
P. O. Box 910  
Bay City, TX 77404-0910

J. R. Newman, Esquire  
Morgan, Lewis & Bockius  
1800 M Street, N.W.  
Washington, DC 20036-5869

M. T. Hardt/W. C. Gunst  
City Public Service  
P. O. Box 1771  
San Antonio, TX 78296

J. C. Lanier/M. B. Lee  
City of Austin  
Electric Utility Department  
721 Barton Springs Road  
Austin, TX 78704

Central Power and Light Company  
ATTN: G. E. Vaughn/C. A. Johnson  
P. O. Box 289, Mail Code: N5012  
Wadsworth, TX 77483

Rufus S. Scott  
Associate General Counsel  
Houston Lighting & Power Company  
P. O. Box 61067  
Houston, TX 77208

Institute of Nuclear Power  
Operations - Records Center  
700 Galleria Parkway  
Atlanta, GA 30339-5957

Dr. Bertram Wolfe  
15453 Via Vaquero  
Monte Sereno, CA 95030

Richard A. Ratliff  
Bureau of Radiation Control  
Texas Department of Health  
1100 West 49th Street  
Austin, TX 78756-3189

J. R. Egan, Esquire  
Egan & Associates, P.C.  
2300 N Street, N.W.  
Washington, D.C. 20037

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

J. W. Beck  
Little Harbor Consultants, Inc.  
44 Nichols Road  
Cohasset, MA 02025-1166

SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 1

MONTHLY OPERATING REPORT

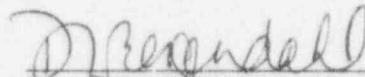
DECEMBER 1996

HOUSTON LIGHTING AND POWER CO.

NRC DOCKET NO. 50-498

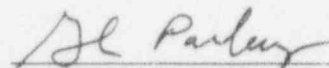
LICENSE NO. NPF-76

Reviewed By:

  
D.M. BERGENDAHL

1/9/97  
Date

Approved By:

  
G.L. PARKEY

1/14/97  
Date

## MONTHLY SUMMARY

STPEGS Unit 1 operated during the reporting period at full power with no unit shutdowns or significant power reductions.

## OPERATING DATA REPORT

DOCKET NO. 50-498  
 UNIT 1  
 DATE Jan 9, 1997  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 12/1/96-12/31/96 GROSS HOURS IN REPORTING PERIOD: 744
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>744.0</u>	<u>8,242.2</u>	<u>49,879.5</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>8,215.0</u>	<u>48,554.3</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,839,848</u>	<u>31,078,930</u>	<u>179,235,265</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>978,300</u>	<u>10,680,040</u>	<u>61,061,710</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>939,190</u>	<u>10,226,800</u>	<u>58,039,520</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>93.8%</u>	<u>68.1%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>93.8%</u>	<u>68.1%</u>
14. UNIT SERVICE FACTOR	<u>100.0%</u>	<u>93.5%</u>	<u>66.3%</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0%</u>	<u>93.5%</u>	<u>66.3%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>100.9%</u>	<u>93.1%</u>	<u>63.4%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>100.9%</u>	<u>93.1%</u>	<u>63.4%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>0.0%</u>	<u>22.9%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	Scheduled 24-hour outage on January 18, to allow control rod testing.		
20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A			

# AVERAGE DAILY UNIT POWER LEVEL

DOCKETNO. 50-498  
 UNIT 1  
 DATE Jan. 9, 1997  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

MONTH DECEMBER

DAY AVERAGE DAILY POWER  
 LEVEL  
 (MWe-Net)

1 1260  
 2 1265  
 3 1264  
 4 1260  
 5 1264  
 6 1259  
 7 1263  
 8 1260  
 9 1264  
 10 1260  
 11 1263  
 12 1260  
 13 1259  
 14 1263  
 15 1259  
 16 1263

DAY AVERAGE DAILY POWER  
 LEVEL  
 (MWe-Net)

17 1259  
 18 1264  
 19 1266  
 20 1265  
 21 1265  
 22 1260  
 23 1265  
 24 1265  
 25 1262  
 26 1265  
 27 1265  
 28 1260  
 29 1263  
 30 1263  
 31 1259

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498  
 UNIT 1  
 DATE Jan. 9, 1997  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

REPORT MONTH DECEMBER

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
THERE WERE NO UNIT SHUTDOWNS OR SIGNIFICANT POWER REDUCTIONS DURING THE REPORTING PERIOD									

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

DECEMBER 1996

HOUSTON LIGHTING AND POWER CO.

NRC DOCKET NO. 50-499

LICENSE NO. NPF-80

Reviewed By:

D. Bergendahl  
D.M. BERGENDAHL

1/9/97  
Date

Approved By:

R.E. Masse  
R.E. MASSE

1/13/97  
Date

## MONTHLY SUMMARY

STPEGS Unit 2 operated during the reporting period at full power with no unit shutdowns or significant power reductions.

## OPERATING DATA REPORT

DOCKETNO. 50-499  
 UNIT 2  
 DATE Jan. 9, 1997  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

### OPERATING STATUS

1. REPORTING PERIOD: 12/1/96-12/31/96 GROSS HOURS IN REPORTING PERIOD: 744
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>744.0</u>	<u>8,453.7</u>	<u>46,554.4</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>8,374.0</u>	<u>45,192.5</u>
8. UNIT RESERVE SHUTDOWN HOURS	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)	<u>2,836,367</u>	<u>31,841,933</u>	<u>166,816,610</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)	<u>974,500</u>	<u>10,920,900</u>	<u>56,749,281</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)	<u>935,790</u>	<u>10,457,930</u>	<u>54,107,276</u>
12. REACTOR SERVICE FACTOR	<u>100.0%</u>	<u>96.2%</u>	<u>70.5%</u>
13. REACTOR AVAILABILITY FACTOR	<u>100.0%</u>	<u>96.2%</u>	<u>70.5%</u>
14. UNIT SERVICE FACTOR	<u>100.0%</u>	<u>95.3%</u>	<u>68.4%</u>
15. UNIT AVAILABILITY FACTOR	<u>100.0%</u>	<u>95.3%</u>	<u>68.4%</u>
16. UNIT CAPACITY FACTOR (Using MDC)	<u>100.6%</u>	<u>95.2%</u>	<u>65.5%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)	<u>100.6%</u>	<u>95.2%</u>	<u>65.5%</u>
18. UNIT FORCED OUTAGE RATE	<u>0.0%</u>	<u>0.7%</u>	<u>22.2%</u>

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

Scheduled 35 day refueling outage to begin on February 8, 1997.

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 Jan. 9, 1997  
COMPLETED BY R.L. Hill  
TELEPHONE 512 972-7667

MONTH DECEMBER

DAY      AVERAGE DAILY POWER  
            LEVEL  
            (MWe-Net)

1	<u>1260</u>
2	<u>1260</u>
3	<u>1265</u>
4	<u>1260</u>
5	<u>1256</u>
6	<u>1261</u>
7	<u>1260</u>
8	<u>1260</u>
9	<u>1256</u>
10	<u>1261</u>
11	<u>1260</u>
12	<u>1258</u>
13	<u>1260</u>
14	<u>1256</u>
15	<u>1260</u>
16	<u>1260</u>

DAY      AVERAGE DAILY POWER  
            LEVEL  
            (MWe-Net)

17	<u>1256</u>
18	<u>1260</u>
19	<u>1263</u>
20	<u>1260</u>
21	<u>1256</u>
22	<u>1260</u>
23	<u>1256</u>
24	<u>1256</u>
25	<u>1225</u>
26	<u>1260</u>
27	<u>1256</u>
28	<u>1260</u>
29	<u>1255</u>
30	<u>1256</u>
31	<u>1256</u>

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKETNO. 50-499  
 UNIT 2  
 DATE Jan. 9, 1997  
 COMPLETED BY R.L. Hill  
 TELEPHONE 512 972-7667

REPORT MONTH DECEMBER

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
THERE WERE NO UNIT SHUTDOWNS OR SIGNIFICANT POWER REDUCTIONS DURING THE REPORTING PERIOD									

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.