

# The Light company

Houston Lighting & Power

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

March 10, 1992

ST-HL-AE-4036

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 February, 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 February, 1992.

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/amp

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

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A Subsidiary of Houston Industries Incorporated

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PDR ADDCK 05000498  
R PDR

*JEH*

cc:

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Revised 10/11/91

L4/NRC/

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

Reviewed By:	<u><i>[Signature]</i></u>	<u>3/3/92</u>
	Supervisor	Date
Reviewed By:	<u><i>D.C. Ragan</i></u>	<u>3-4-92</u>
	Plant Engineering Manager	Date
Approved By:	<u><i>[Signature]</i></u>	<u>3/5/92</u>
	Plant Manager	Date

Monthly Summary

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

OPERATING DATA REPORT

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

OPERATING STATUS

1. REPORTING PERIOD: 02/01-02/29 GROSS HOURS IN REPORTING PERIOD: 696
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>696.0</u>	<u>1440.0</u>	<u>21459.9</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>696.0</u>	<u>1440.0</u>	<u>20652.3</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2651777</u>	<u>5489517</u>	<u>75643840</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>909580</u>	<u>1883660</u>	<u>25591660</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>873357</u>	<u>1807551</u>	<u>24135920</u>
12. REACTOR SERVICE FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>69.6%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>69.6%</u>
14. UNIT SERVICE FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>67.0%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>100.0%</u>	<u>100.0%</u>	<u>67.0%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>100.3%</u>	<u>100.4%</u>	<u>62.6%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>100.3%</u>	<u>100.4%</u>	<u>62.6%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>0.0%</u>	<u>0.0%</u>	<u>13.4%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):	Scheduled 5 day maintenance outage to begin April 6, 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 Mar. 3, 1992  
COMPLETED BY A. P. Kent  
TELEPHONE 512/972-7786

MONTH FEBRUARY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1258</u>
2	<u>1258</u>
3	<u>1258</u>
4	<u>1255</u>
5	<u>1255</u>
6	<u>1259</u>
7	<u>1260</u>
8	<u>1260</u>
9	<u>1260</u>
10	<u>1260</u>
11	<u>1260</u>
12	<u>1259</u>
13	<u>1258</u>
14	<u>1258</u>
15	<u>1259</u>
16	<u>1258</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1258</u>
18	<u>1259</u>
19	<u>1256</u>
20	<u>1258</u>
21	<u>1229</u>
22	<u>1230</u>
23	<u>1231</u>
24	<u>1255</u>
25	<u>1249</u>
26	<u>1256</u>
27	<u>1258</u>
28	<u>1258</u>
29	<u>1258</u>
30	<u>N/A</u>
31	<u>N/A</u>

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH FEBRUARY

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)  
 L-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

ATTACHMENT 1  
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There were no PORV or Safety Valves challenged during the reporting period.



SOUTH TEXAS PROJECT  
ELECTRIC GENERATING STATION  
UNIT 2  
MONTHLY OPERATING REPORT  
FEBRUARY 1992  
HOUSTON LIGHTING AND POWER CO.  
NRC DOCKET NO. 50-499  
LICENSE NO. NFF-60

Reviewed By: <u><i>[Signature]</i></u>	<u>3/3/92</u>
Supervisor	Date
Reviewed By: <u><i>[Signature]</i></u>	<u>3-3-92</u>
Plant Engineering Manager	Date
Approved By: <u><i>[Signature]</i></u>	<u>3/5/92</u>
Plant Manager	Date

Monthly Summary

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

On 2/24/92 at 1811 the reactor was manually tripped due to the inability to control steam generator levels. Heavy rains intruded into the steam generator feedwater pump common control cabinet. Subsequent grounds caused the overspeed of Feedwater Pump #22 and a loss of speed control on Feedwater Pump #21.

The unit was returned to service on 2/26/92 at 0153 and concluded the reporting period at 100% reactor power.

OPERATING DATA REPORT

DOCKET NO. 50-499  
 UNIT 2  
 DATE Mar. 3, 1992  
 COMPLETED BY A.P. Kent  
 TELEPHONE 512/572-7786

OPERATING STATUS

1. REPORTING PERIOD: 02/01-02/29 GROSS HOURS IN REPORTING PERIOD: 696
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>673.7</u>	<u>1291.6</u>	<u>16714.2</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>664.3</u>	<u>1254.3</u>	<u>15736.5</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt)....	<u>2511067</u>	<u>4702880</u>	<u>57096151</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..	<u>859420</u>	<u>1604810</u>	<u>19272170</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>823415</u>	<u>1537546</u>	<u>18241549</u>
12. REACTOR SERVICE FACTOR.....	<u>96.8%</u>	<u>89.7%</u>	<u>70.6%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>96.8%</u>	<u>89.7%</u>	<u>70.6%</u>
14. UNIT SERVICE FACTOR.....	<u>95.4%</u>	<u>87.1%</u>	<u>66.5%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>95.4%</u>	<u>87.1%</u>	<u>66.5%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>94.6%</u>	<u>85.4%</u>	<u>61.6%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)..	<u>94.6%</u>	<u>85.4%</u>	<u>61.6%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>4.6%</u>	<u>12.9%</u>	<u>16.2%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): <u>N/A</u>			
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 Mar. 3, 1992  
COMPLETED BY A.P. Kent  
TELEPHONE 512/972-7786

MONTH FEBRUARY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1244</u>	17	<u>1253</u>
2	<u>1255</u>	18	<u>1252</u>
3	<u>1255</u>	19	<u>1244</u>
4	<u>1255</u>	20	<u>1254</u>
5	<u>1257</u>	21	<u>1255</u>
6	<u>1255</u>	22	<u>1256</u>
7	<u>1256</u>	23	<u>1256</u>
8	<u>1257</u>	24	<u>939</u>
9	<u>1257</u>	25	<u>0</u>
10	<u>1256</u>	26	<u>781</u>
11	<u>1254</u>	27	<u>1252</u>
12	<u>1254</u>	28	<u>1249</u>
13	<u>1254</u>	29	<u>1248</u>
14	<u>1255</u>	30	<u>N/A</u>
15	<u>1255</u>	31	<u>N/A</u>
16	<u>1254</u>		

UNIT SHUTDOWNS AND POWER REDUCTIONS

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

REPORT MONTH FEBRUARY

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	920224	F	31.7	A	2	2-92-003	SJ	P	<p>The reactor was manually tripped due to the inability to control steam generator levels. Heavy rains intruded into the steam generator feedwater pump common control cabinet. Subsequent grounds caused the overspeed of Feedwater Pump #22 and a loss of speed control on Feedwater Pump #21.</p> <p>Recurrence control measures will be addressed in the LER.</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-4036  
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PORVs and Safety Valves Summary

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