

The Light company

Houston Lighting & Power

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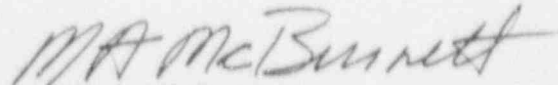
December 12, 1990
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10CFR50.71

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, 1990

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, 1990.

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



M. A. McBurnett
Manager,
Nuclear Licensing

RAD/sgs

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report - November, 1990
2) STPEGS Unit 2 Monthly Operating Report - November, 1990

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A Subsidiary of Houston Industries Incorporated

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

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Austin, TX 78756-3189

Revised 10/08/90

L4/NRC/

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
NOVEMBER 1990
HOUSTON LIGHTING AND POWER CO.
NRC DOCKET NO. 50-498
LICENSE NO. NPF-76

Reviewed By: C. P. G. L. 12/10/90
Supervisor Date

Reviewed By: D. C. Boyan 12/11/90
Plant Engineering Manager Date

Approved By: V. G. [unclear] FOR MRW 12/11/90
Plant Manager Date

Monthly Summary

STPEGS began the reporting period at 100% reactor power. On 11/24/90 at 1448 a unit trip occurred due to the failure of the stator cooling water inlet header box on stator coil #20. Inspection revealed that a significant amount of the copper header box material was missing presumably vaporized or melted by some electrical arcing or thermal overheating mechanism.

The unit concluded the reporting period with the investigation into the root cause on-going.

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE Dec. 12, 1990
 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 (MWc): 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>566.8</u>	<u>5533.7</u>	<u>13781.1</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>566.8</u>	<u>5202.3</u>	<u>13141.5</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2157277</u>	<u>18999774</u>	<u>47678208</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..	<u>739510</u>	<u>6366900</u>	<u>16097490</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>700299</u>	<u>6017540</u>	<u>15142209</u>
12. REACTOR SERVICE FACTOR.....	<u>78.7%</u>	<u>69.0%</u>	<u>69.3%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>78.7%</u>	<u>69.0%</u>	<u>69.3%</u>
14. UNIT SERVICE FACTOR.....	<u>78.7%</u>	<u>64.9%</u>	<u>66.1%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>78.7%</u>	<u>64.9%</u>	<u>66.1%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>77.8%</u>	<u>60.0%</u>	<u>60.9%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)..	<u>77.8%</u>	<u>60.0%</u>	<u>60.9%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>21.3%</u>	<u>14.4%</u>	<u>11.3%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			
Scheduled 89 day refueling outage to begin January 2, 1991.			
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: <u>03/31/91</u>			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
UNIT 1
DATE Dec. 7, 1990
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

MONTH NOVEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1249</u>
2	<u>1248</u>
3	<u>1249</u>
4	<u>1250</u>
5	<u>1249</u>
6	<u>1247</u>
7	<u>1244</u>
8	<u>1243</u>
9	<u>1243</u>
10	<u>1226</u>
11	<u>1217</u>
12	<u>1248</u>
13	<u>1256</u>
14	<u>1254</u>
15	<u>1254</u>
16	<u>1253</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1250</u>
18	<u>1252</u>
19	<u>1250</u>
20	<u>1249</u>
21	<u>1245</u>
22	<u>1246</u>
23	<u>1248</u>
24	<u>750</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. 50-498
 UNIT 1
 DATE Dec. 10, 1990
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

REPORT MONTH NOVEMBER

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutt. or Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
90-16	901124	F	153.2	A	3	1-90-025	TJ	CCL	<p>The unit tripped due to the failure of the stator cooling water inlet header box on stator coil #20. Inspection revealed that a significant amount of the copper header box material was missing presumably vaporized or melted by some electrical arcing or thermal overheating mechanism.</p> <p>Investigation into the root cause is on-going. Corrective actions will be established following the completion of the investigation.</p>

¹F: Forced
 S: Scheduled

²Reason:
 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)

³Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Cont. of Existing Outage
 5-Reduction
 9-Other

⁴IEEE 805-1983

⁵IEEE 803A-1983

ATTACHMENT 1
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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
NOVEMBER 1990
HOUSTON LIGHTING AND POWER CO.
NRC DOCKET NO. 50-499
LICENSE NO. NPF-80

Reviewed By: AL P/L 12/10/90
Supervisor Date

Reviewed By: J.C. Kagan 12/11/90
Plant Engineering Manager Date

Approved By: W. J. Jump for MRW 12/11/90
Plant Manager Date

Monthly Summary

STPEGS Unit 2 remained shutdown during the reporting period for refueling and scheduled maintenance.

OPERATING DATA REPORT

DOCKET NO. 50-499
 UNIT 2
 DATE Dec. 7, 1990
 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.....	0	5397.4	8374.3
6. REACTOR RESERVE SHUTDOWN HOURS.....	0	0	0
7. HOURS GENERATOR ON LINE.....	0	4990.1	7836.8
8. UNIT RESERVE SHUTDOWN HOURS.....	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWt).....	0	18573980	28096356
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	0	6274700	9487730
11. NET ELECTRICAL ENERGY GENERATED (MWh).....	-4784	5930126	8951300
12. REACTOR SERVICE FACTOR.....	0.0%	67.3%	65.8%
13. REACTOR AVAILABILITY FACTOR.....	0.0%	67.3%	65.8%
14. UNIT SERVICE FACTOR.....	0.0%	62.3%	61.6%
15. UNIT AVAILABILITY FACTOR.....	0.0%	62.3%	61.6%
16. UNIT CAPACITY FACTOR (Using MDC).....	-0.5%	59.2%	56.3%
17. UNIT CAPACITY FACTOR (Using Design MWe).....	-0.5%	59.2%	56.3%
18. UNIT FORCED OUTAGE RATE.....	0.0%	22.7%	22.0%
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>12/12/90</u>			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-499
UNIT 2
DATE Dec. 7, 1990
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

MONTH NOVEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</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. 7, 1990
 COMPLETED BY A. P. Kent
 TELEPHONE 512/972-7786

REPORT MONTH NOVEMBER

No.	Date	Type ¹	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
90-13	900929	S	720.0	C	4	N/A	N/A	N/A	Refueling and scheduled maintenance outage.

¹F: Forced
 S: Scheduled

²Reason:
 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)

³Method:
 1-Manual
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 Outage
 5-Reduction
 9-Other

⁴IEEE 805-1983

⁵IEEE 803A-1983

ATTACHMENT
 ST-HL-AE-3652
 PAGE 5 OF 6

PORVs and Safety Valves Summary

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