

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas 77001 (713) 228-9211

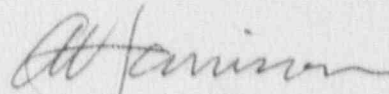
February 13, 1991
ST-HL-AE-3692
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10CFR50.71

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 January, 1991

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, 1991.

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



A. W. Harrison
Manager
Nuclear Licensing

RAD/sgs

- Attachments: 1) STPEGS Unit 1 Monthly Operating Report - January, 1991
2) STPEGS Unit 2 Monthly Operating Report - January, 1991

cc:

Regional Administrator, Region IV
Nuclear Regulatory Commission
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P. O. Box 1771
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Houston Lighting & Power Company
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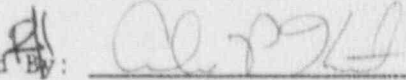
INPO
Records Center
1100 Circle 75 Parkway
Atlanta, GA 30339-3064

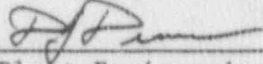
Dr. Joseph M. Hendrie
50 Bellport Lane
Bellport, NY 11713

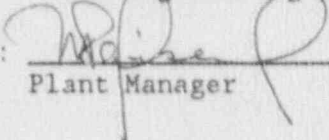
D. K. Lacker
Bureau of Radiation Control
Texas Department of Health
1100 West 49th Street
Austin, TX 78756-3189

Revised 01/29/91

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
JANUARY 1991
HOUSTON LIGHTING AND POWER CO.
NRC DOCKET NO. 50-498
LICENSE NO. NFF-76

Reviewed By:  2/7/91
Supervisor Date

~~Reviewed~~ By:  2/8/91
Plant Engineering Manager Date

Approved By:  2/11/91
Plant Manager Date

Monthly Summary

STPEGS Unit 1 remained shutdown following a unit trip on 11/24/90 due to an actuation of the generator ground fault protection relay. January 15 marked the start of the planned refueling outage with the unit scheduled to return to service on 3/24/91.

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE Feb. 7, 1991
 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.....	0	0	13781.1
6. REACTOR RESERVE SHUTDOWN HOURS.....	0	0	0
7. HOURS GENERATOR ON LINE.....	0	0	13141.5
8. UNIT RESERVE SHUTDOWN HOURS.....	0	0	0
9. GROSS THERMAL ENERGY GENERATED (MWt).....	0	0	47678208
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)..	0	0	16097490
11. NET ELECTRICAL ENERGY GENERATED (MWh)....	-10968	-10968	15113515
12. REACTOR SERVICE FACTOR.....	0.0%	0.0%	64.5%
13. REACTOR AVAILABILITY FACTOR.....	0.0%	0.0%	64.5%
14. UNIT SERVICE FACTOR.....	0.0%	0.0%	61.5%
15. UNIT AVAILABILITY FACTOR.....	0.0%	0.0%	61.5%
16. UNIT CAPACITY FACTOR (Using MDC).....	-1.2%	-1.2%	56.6%
17. UNIT CAPACITY FACTOR (Using Design MWe)..	-1.2%	-1.2%	56.6%
18. UNIT FORCED OUTAGE RATE.....	100.0%	100.0%	17.3%
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>03/24/91</u>			

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
UNIT 1
DATE Feb. 7, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

MONTH JANUARY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT 1
 DATE Feb. 7, 1991
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

REPORT MONTH JANUARY

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
90-16	901124	F	336.0	A	4	1-90-025	TJ	CCL	The unit tripped due to an actuation of the generator ground fault protection relay. Internal inspection of the generator revealed damage to the end turn of stator coil #20. A significant amount of header box material was missing, presumably vaporized by an electrical arc from the failed stator coil end turn to the cooling water manifold. Excessive end turn assembly vibration is suspected as the root cause, however additional testing and inspections are necessary before the cause of the failure can be conclusively determined. The generator rotor will be removed and full inspection and repairs will be performed concurrent with the refueling outage.
91-01	910115	S	408.0	C	9	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
 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
JANUARY 1991
HOUSTON LIGHTING AND POWER CO.
NRC DOCKET NO. 50-499
LICENSE NO. NPF-80

Reviewed By: [Signature] 2/1/91
Supervisor Date

Reviewed By: [Signature] 2/2/91
Plant Engineering Manager Date

Approved By: [Signature] 2/11/91
Plant Manager Date

Monthly Summary

The unit began the reporting period operating at 100% reactor power.

During the investigation of low nitrogen and low hydraulic pressure alarms for feedwater isolation valve (FWIV) 2C the fuse to one of two safety grade solenoid dump valves for FWIV 2C was incorrectly pulled. The valve failed closed as a result and the reactor was manually tripped on 1/9/91 at 2207. The unit was returned to service on 1/11/91 at 0834 but was again removed from service due to turbine generator vibration problems. The turbine was balanced and the unit returned service at 2042.

The unit concluded the report period operating at 100% reactor power.

OPERATING DATA REPORT

DOCKET NO. 50-499
 UNIT 2
 DATE Feb. 7, 1991
 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
 I. Y. 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>711.2</u>	<u>711.2</u>	<u>9692.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS.	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>702.3</u>	<u>702.3</u>	<u>9048.0</u>
8. UNIT RESERVE SHUTDOWN HOURS.	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWt).....	<u>2607255</u>	<u>2607255</u>	<u>32312523</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH)...	<u>888140</u>	<u>888140</u>	<u>10910610</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH)....	<u>850115</u>	<u>850115</u>	<u>10298883</u>
12. REACTOR SERVICE FACTOR.....	<u>95.6%</u>	<u>95.6%</u>	<u>68.2%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>95.6%</u>	<u>95.6%</u>	<u>68.2%</u>
14. UNIT SERVICE FACTOR.....	<u>94.4%</u>	<u>94.4%</u>	<u>63.7%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>94.4%</u>	<u>94.4%</u>	<u>63.7%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>91.4%</u>	<u>91.4%</u>	<u>58.0%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)...	<u>91.4%</u>	<u>91.4%</u>	<u>58.0%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>5.6%</u>	<u>5.6%</u>	<u>20.0%</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 Feb. 7, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

MONTH JANUARY

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1249
2	1251
3	1253
4	1251
5	1253
6	1253
7	1144
8	1249
9	1153
10	0
11	0
12	922
13	1211
14	1217
15	1216
16	1214

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1217
18	1181
19	1231
20	1253
21	1254
22	1251
23	1250
24	1248
25	1247
26	1252
27	1253
28	1252
29	1253
30	1250
31	1250

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499
 UNIT 2
 DATE Feb. 7, 1991
 COMPLETED BY A.P. Kent
 TELEPHONE 512/972-7786

REPORT MONTH JANUARY

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
91-01	910109	F	34.5	G	2	2-91-001	SJ	ISV	During the investigation of low nitrogen and low hydraulic pressure alarms for feedwater isolation valve (FWIV) 2C, the fuse to one of two safety grade solenoid dump valves for FWIV 2C was incorrectly pulled. The valve failed closed as a result and the reactor was manually tripped. The root cause and recurrence measures will be addressed in the LER.
91-02	910111	F	7.2	B	1	N/A	SB	TRB	Bearing vibration problems required removing the unit from service to balance the turbine.

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 2
 ST-HL-AE-3692
 PAGE 5 OF 6

PORVs and Safety Valves Summary

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