The Light company
Houston Lighting & Power

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

January 10, 1991
ST-HL-AE-3669
File No.: G02
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 December, 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 December, 1990.

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 - December, 1990
2) STPEGS Unit 2 Monthly Operating Report - December, 1990

IE24

cc:

Regional Administrator, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

George Dick, Project Manager
U.S. Nuclear Regulatory Commission
Washington, DC 20555

J. I. Tapia
Senior Resident Inspector
c/o U. S. Nuclear Regulatory
Commission
P. O. Box 910
Bay City, TX 77414

J. R. Newman, Esquire
Newman & Holtzinger, P.C.
1615 L Street, N.W.
Washington, DC 20036

R. P. Verret/D. E. Ward
Central Power & Light Company
P. O. Box 2121
Corpus Christi, TX 78403

J. C. Lanier/M. B. Lee
City of Austin
Electric Utility Department
P O. Box 1088
Austin, TX 78767

R. J. Costello/M. T. Hardt
City Public Service Board
P. O. Box 1771
San Antonio, TX 78296

Rufus S. Scott
Associate General Counsel
Houston Lighting & Power Company
P. O. Box 61867
Houston, TX 77208

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 10/08/90

L4/NRC/

SOUTH TEXAS PROJECT

ELECTRIC GENERATING STATION

UNIT 1

MONTHLY OPERATING REPORT

DECEMBER 1990

HOUSTON LIGHTING AND POWER CO.

NRC DOCKET NO. 50-498

LICENSE NO. NPF-76

Reviewed By: _____ 1-4-91
Supervisor Date

Reviewed By: _____ 1-4-91
Plant Engineering Manager Date

Approved By: _____ 1/4/91
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.

OPERATING DATA REPORT

DOCKET NO. 50-498
UNIT 1
DATE Jan. 4, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 12/01-12/31 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	5533.7	13781.1
6.	REACTOR RESERVE SHUTDOWN HOURS	0	0	0
7.	HOURS GENERATOR ON LINE	0	5202.3	13141.5
8.	UNIT RESERVE SHUTDOWN HOURS	0	0	0
9.	GROSS THERMAL ENERGY GENERATED (MWt)	0	18999774	47678208
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	6366900	16097490
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	-17726	5999814	15124483
12.	REACTOR SERVICE FACTOR	0.0%	63.2%	66.8%
13.	REACTOR AVAILABILITY FACTOR	0.0%	63.2%	66.8%
14.	UNIT SERVICE FACTOR	0.0%	59.4%	63.7%
15.	UNIT AVAILABILITY FACTOR	0.0%	59.4%	63.7%
16.	UNIT CAPACITY FACTOR (Using MDC)	-1.9%	54.8%	58.7%
17.	UNIT CAPACITY FACTOR (Using Design MWe)	-1.9%	54.8%	58.7%
18.	UNIT FORCED OUTAGE RATE	100.0%	23.8%	15.5%

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

    Scheduled 68 day refueling outage to begin January 15, 1991.

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 03/24/91

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
UNIT 1
DATE Jan. 4, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

MONTH DECEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
UNIT 1
DATE Jan. 4, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

REPORT MONTH DECEMBER

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of[3] Shutting Down Reactor	Licensee Event Report #	System[4] Code	Component[5] Code	Cause & Corrective Action to Prevent Recurrence
90-16	901124	F	744.0	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.

[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 803A-1983

ATTACHMENT 1
ST-HL-AE-3669
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

DECEMBER 1990

HOUSTON LIGHTING AND POWER CO.

NRC DOCKET NO. 50-499

LICENSE NO. NPF-80

Reviewed By: _____ 1-4-91
Supervisor Date

Reviewed By: _____ 1-4-91
Plant Engineering Manager Date

Approved By: _____ 1/4/91
Plant Manager Date

Monthly Summary

Following a refueling outage, STPEGS Unit 2 was returned to service for normal operation on 12/11/90 at 0949. The unit operated for the remainder of the reporting period with no unit shutdowns or significant power reductions.

OPERATING DATA REPORT

DOCKET NO. 50-499
UNIT 2
DATE Jan. 3, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

OPERATING STATUS

1. REPORTING PERIOD: 12/01-12/31 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	607.0	6004.4	8981.3
6.	REACTOR RESERVE SHUTDOWN HOURS	0	0	0
7.	HOURS GENERATOR ON LINE	508.9	5499.0	8345.6
8.	UNIT RESERVE SHUTDOWN HOURS	0	0	0
9.	GROSS THERMAL ENERGY GENERATED (MWt)	1608911	20182891	29705268
10.	GROSS ELECTRICAL ENERGY GENERATED (MWH)	534740	6809440	10022470
11.	NET ELECTRICAL ENERGY GENERATED (MWH)	497468	6427594	9448768
12.	REACTOR SERVICE FACTOR	81.6%	68.5%	66.7%
13.	REACTOR AVAILABILITY FACTOR	81.6%	68.5%	66.7%
14.	UNIT SERVICE FACTOR	68.4%	62.8%	62.0%
15.	UNIT AVAILABILITY FACTOR	68.4%	62.8%	62.0%
16.	UNIT CAPACITY FACTOR (Using MDC)	53.5%	58.7%	56.1%
17.	UNIT CAPACITY FACTOR (Using Design MWe)	53.5%	58.7%	56.1%
18.	UNIT FORCED OUTAGE RATE	0.0%	21.0%	21.0%

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: N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-499
UNIT 2
DATE Jan. 3, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

MONTH DECEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	943
2	0	18	1126
3	0	19	1224
4	0	20	1233
5	0	21	1244
6	0	22	1245
7	0	23	1240
8	0	24	1241
9	0	25	1248
10	0	26	1251
11	130	27	1248
12	252	28	1256
13	297	29	1251
14	499	30	1250
15	824	31	1247
16	910		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499
UNIT 2
DATE Jan. 3, 1991
COMPLETED BY A.P. Kent
TELEPHONE 512/972-7786

REPORT MONTH DECEMBER

No.	Date	Type[1]	Duration (Hours)	Reason[2]	Method of[3] Shutting Down Reactor	Licensee Event Report #	System[4] Code	Component[5] Code	Cause & Corrective Action to Prevent Recurrence
90-13	900929	S	233.9	C	4	N/A	N/A	N/A	Refueling and scheduled maintenance outage.
90-14	901211	S	1.2	B	9	N/A	N/A	N/A	Turbine overspeed trip test.

[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 803A-1983

ATTACHMENT 2
ST-HL-AE-3665
PAGE 5 OF 6

PORVs and Safety Valves Summary

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