

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
FOR AUGUST 25 - 31
HOUSTON LIGHTING AND POWER CO.

NRC DOCKET NO. 50-498

LICENSE NO. NPF-76

Prepared by: *Mark Fosyth* 9/8/88
Lead Performance Technician Date

Reviewed by: *Albert Hunt* 9/9/88
Performance Technician Supervisor Date

Reviewed By: *[Signature]* 9/9/88
Plant Engineering Manager Date

Reviewed By: *[Signature]* 9/9/88
Plant Superintendent Date

Approved By: *[Signature]* 9/11/88
Plant Manager Date

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

OPERATING STATUS

1. REPORTING PERIOD: 08/25-08/31 GROSS HOURS IN REPORTING PERIOD: 168
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3817
 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>96.0</u>	<u>96.0</u>	<u>96.0</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>74.5</u>	<u>74.5</u>	<u>74.5</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>200457.6</u>	<u>200457.6</u>	<u>200457.6</u>
10. GROSS ELECTRICAL ENERGY GENERATED(MWH).....	<u>60720</u>	<u>60720</u>	<u>60720</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>50420</u>	<u>50420</u>	<u>50420</u>
12. REACTOR SERVICE FACTOR.....	<u>57%</u>	<u>57%</u>	<u>57%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>57%</u>	<u>57%</u>	<u>57%</u>
14. UNIT SERVICE FACTOR.....	<u>44%</u>	<u>44%</u>	<u>44%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>44%</u>	<u>44%</u>	<u>44%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>24%</u>	<u>24%</u>	<u>24%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)....	<u>24%</u>	<u>24%</u>	<u>24%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>56%</u>	<u>56%</u>	<u>56%</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): Scheduled 14 day outage to begin September 23, 1988 and February 1, 1989 for Bottom Mounted Instrumentation Inspection.			
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	<u>09/02/88</u>		
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED	
INITIAL CRITICALITY	<u>03/08/88</u>	<u>03/08/88</u>	
INITIAL ELECTRICITY	<u>03/30/88</u>	<u>03/30/88</u>	
COMMERCIAL OPERATION	<u>08/25/88</u>	<u>08/25/88</u>	

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT NAME 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

REPORT MONTH August

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
88-01	880826	F	45.1	A	3	88-049	SB	FUB	Turbine/Reactor trip from 100% power. Cause unknown at the time of the event.
88-02	880828	F	12.1	A	9	N/A	SB	FUB	Turbine trip from 23% power. Cause unknown at the time of the event. (Subsequent investigation determined that the trip was caused by a failed fuse block in the Stator Cooling Water turbine trip circuitry. This was determined to be the cause of event 88-01.)

¹F: Forced
 S: Scheduled

²Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT NAME 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

REPORT MONTH August

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
88-03	880830	F	36.3	B	1	N/A	SB	PSF	Steam leak. Cracked weld repair in Steam Generator main steam vent line. Various other welds were penetrant tested to ensure problem was not common to other areas.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
 UNIT 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>N/A</u>	17	<u>N/A</u>
2	<u>N/A</u>	18	<u>N/A</u>
3	<u>N/A</u>	19	<u>N/A</u>
4	<u>N/A</u>	20	<u>N/A</u>
5	<u>N/A</u>	21	<u>N/A</u>
6	<u>N/A</u>	22	<u>N/A</u>
7	<u>N/A</u>	23	<u>N/A</u>
8	<u>N/A</u>	24	<u>N/A</u>
9	<u>N/A</u>	25	<u>1179</u>
10	<u>N/A</u>	26	<u>841</u>
11	<u>N/A</u>	27	<u>0</u>
12	<u>N/A</u>	28	<u>0</u>
13	<u>N/A</u>	29	<u>82</u>
14	<u>N/A</u>	30	<u>160</u>
15	<u>N/A</u>	31	<u>0</u>
16	<u>N/A</u>		

Monthly Summary

South Texas Project Unit 1 declared commercial operational status August 25 at 0001.

On August 26 a turbine/reactor trip occurred due to low stator water differential pressure. Subsequently a Safety Injection occurred due to low compensated steamline pressure. After the unit was placed on line on August 28, a turbine trip occurred delaying power ascension. By August 29 the unit was again on line.

Power ascension to 45% load commenced to allow troubleshooting for the cause of the previous turbine trips. On August 30 the unit was reduced to 0% power to repair a steam leak in the main steam vent line.

PORVs and Safety Valves Summary

No PORVs or Safety Valves were challenged during this reporting period.

SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
UNIT 1
MONTHLY OPERATING REPORT
FOR AUGUST 1 - 24
HOUSTON LIGHTING AND POWER CO.

NRC DOCKET NO. 50-498

LICENSE NO. NPF-76

Prepared by: *RH for Mark Fousyck* 9/8/88
Lead Performance Technician Date

Reviewed by: *Al P. H. A.* 9/8/88
Performance Technician Supervisor Date

Reviewed By: *J. J. [unclear]* 9/8/88
~~PL~~ Plant Engineering Manager Date

Reviewed By: *W. J. [unclear]* 9/9/88
Plant Superintendent Date

Approved By: *W. H. [unclear]* 9/11/88
Plant Manager Date

OPERATING DATA REPORT

DOCKET NO. 50-498
 UNIT 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

OPERATING STATUS

1. REPORTING PERIOD: 08/01-08/24 GROSS HOURS IN REPORTING PERIOD: 576
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3817
 MAX.DEPEND.CAPACITY (MWe-Net): 1250.6
 DESIGN ELECTRICAL RATING (MWe-Net): 1250.6
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY)(MWe-Net): See Item 4
4. REASONS FOR RESTRICTION (IF ANY): Unit in power ascension testing phase.

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL.....	<u>460.7</u>	<u>2303.84</u>	<u>2303.84</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>397.0</u>	<u>2030.18</u>	<u>2030.18</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH)...	<u>1,238,131.2</u>	<u>3,966,352.6</u>	<u>3,966,352.6</u>
10. GROSS ELECTRICAL ENERGY GENERATED(MWH)....	<u>406,360</u>	<u>1,204,902.8</u>	<u>1,204,902.8</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>370,011</u>	<u>998,930</u>	<u>998,930</u>
12. REACTOR SERVICE FACTOR.....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
14. UNIT SERVICE FACTOR.....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
15. UNIT AVAILABILITY FACTOR.....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
17. UNIT CAPACITY FACTOR (Using Design MWe)....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
18. UNIT FORCED OUTAGE RATE.....	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
19. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): Scheduled 14 day outage to begin September 23, 1988 and February 1, 1989 for Bottom Mounted Instrumentation Inspection.			
20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	<u>N/A</u>		
21. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED	
INITIAL CRITICALITY	<u>03/08/88</u>	<u>03/08/88</u>	
INITIAL ELECTRICITY	<u>03/30/88</u>	<u>03/30/88</u>	
COMMERCIAL OPERATION	<u>08/25/88</u>	<u>08/25/88</u>	

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT NAME 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

REPORT MONTH August

No.	Date	Type ⁱ	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
88-17	880728	S	2.8	B	4	N/A	N/A	N/A	Performed Reactor Trip Test at 100% Power Plateau.
88-18	880807	F	0	D	5	N/A	N/A	N/A	Reduced reactor power to comply with Tech. Spec. action requirement for out of tolerance nuclear enthalpy rise hot channel factor.
88-19	880808	S	0	B	5	N/A	N/A	N/A	Performed Large Load Reduction Test.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
 UNIT NAME 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

REPORT MONTH August

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
88-20	880808	F	122.1	B	1	N/A	N/A	N/A	Feed regulator valve steam leak repair.
88-21	880816	F	54.1	A	3	88-048	SB	V	Turbine/Reactor trip due to Stator Cooling System transient experienced during pump switch over. A low flow condition was created by a faulty check valve.

¹ F: Forced
 S: Scheduled

² Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
 UNIT 1
 DATE August 11, 1988
 COMPLETED BY A.P. Kent
 TELEPHONE 512-972-7786

MONTH August

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>55</u>	17	<u>0</u>
2	<u>410</u>	18	<u>0</u>
3	<u>1139</u>	19	<u>591</u>
4	<u>1237</u>	20	<u>1184</u>
5	<u>1239</u>	21	<u>1219</u>
6	<u>1165</u>	22	<u>1214</u>
7	<u>983</u>	23	<u>1211</u>
8	<u>777</u>	24	<u>1208</u>
9	<u>0</u>	25	<u>N/A</u>
10	<u>0</u>	26	<u>N/A</u>
11	<u>0</u>	27	<u>N/A</u>
12	<u>0</u>	28	<u>N/A</u>
13	<u>0</u>	29	<u>N/A</u>
14	<u>507</u>	30	<u>N/A</u>
15	<u>1079</u>	31	<u>N/A</u>
16	<u>522</u>		

Monthly Summary

Following successful completion of the Reactor Trip at 100% Power Test ending the July report period, STP Unit 1 again reached the 100% power plateau August 2.

From August 8 through 13 the unit reduced power to 0% to repack several regulator valves in the feedwater system and complete other specific maintenance tasks. The ascension toward 100% power began August 14 at a rate of approximately 3% per hour.

On August 16 the unit tripped during a Stator Cooling System pump switchover as preparations were being made for preventive maintenance on one of the pumps. Following a check of the Estimated Critical Conditions calculations, power ascension resumed and 100% power was achieved August 20 marking the start of the 100-Hour NSSS Acceptance Test. The acceptance test was successfully completed August 24 ending the Initial Startup testing program.

On August 25, STP Unit 1 was declared commercially operable.

PORVs and Safety Valves Summary

No PORVs or Safety Valves were challenged during this reporting period.

The Light company

Houston Lighting & Power

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

September 12, 1988

ST-HL-AE-2791

File No.: G02

10CFR50.71

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project Electric Generating Station
Unit 1
Docket No. STN 50-498
Monthly Operating Reports for August 1988

Pursuant to 10CFR50.71(a) and the South Texas Project Electric Generating Station (STPEGS) Unit 1 Technical Specification 6.9.1.5, attached are the Monthly Operating Reports for August, 1988. Unit 1 was declared to be in commercial operation on August 25, 1988 at 0001 hours. As such, two reports are submitted for the month of August covering the conclusion of the startup phase (August 1 to 24) and the beginning of commercial operation (August 25 to 31). The data has been "rezeroed", as of the commercial operation initiation, in the later report.

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



M. A. McBurnett
Manager, Operations
Support Licensing

MAM/CAA/n1

Attachments: (1) STPEGS Unit 1 Monthly Operating Report - August 1-24, 1988
(2) STPEGS Unit 1 Monthly Operating Report - August 25-31, 1988

DEY
1/1

cc:

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

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

Jack E. Bess
Resident Inspector/Operations
c/o U. S. Nuclear Regulatory Commission
P. O. Box 910
Bay City, TX 77414

J. I. Tapia
Senior Resident Inspector/Construction
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. L. Range/R. P. Verret
Central Power & Light Company
P. O. Box 2121
Corpus Christi, TX 78403

R. John Miner (2 copies)
Chief Operating Officer
City of Austin Electric Utility
721 Barton Springs Road
Austin, TX 78704

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

Rufus S. Scott
Associated General Counsel
Houston Lighting & Power Company
P. O. Box 1700
Houston, TX 77001

INPO
Records Center
1100 Circle 75 Parkway
Atlanta, Ga. 30339-3064

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