Nuclear Operating Company

South Texas Project Nuclear Operating Company PO. Box 289 Wadsworth, Texas 77483

January 15, 2002
NOC-AE-03001451
File No.: G02
10CFR50.71
STI: 31541410

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Monthly Operating Reports for December 2002

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 2002. If you should have any questions on this matter, please contact R.L. Hill at (361) 972-7667.

F.H. Mallen
Manager, Planning &
Controls

Attachments: 1) STPEGS Unit 1 Monthly Operating Report – December 2002
2) STPEGS Unit 2 Monthly Operating Report – December 2002

IE24

cc:
(paper copy)

Ellis W. Merschoff
Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011-8064

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Richard A. Ratliff
Bureau of Radiation Control
Texas Department of Health
1100 West 49th Street
Austin, TX 78756-3189

Cornelius F. O'Keefe
U. S. Nuclear Regulatory Commission
P. O. Box 289, Mail Code: MN116
Wadsworth, TX 77483

C. M. Canady
City of Austin
Electric Utility Department
721 Barton Springs Road
Austin, TX 78704

(electronic copy)

A. H. Gutterman, Esquire
Morgan, Lewis & Bockius LLP

M. T. Hardt/W. C. Gunst
City Public Service

Mohan C. Thadani
U. S. Nuclear Regulatory Commission

R. L. Balcom/D. G. Tees
Texas Genco, LP

A. Ramirez
City of Austin

C. A. Johnson/A. C. Bakken III
AEP - Central Power and Light Company

Jon C. Wood
Matthews & Branscomb

SOUTH TEXAS PROJECT

ELECTRIC GENERATING STATION

UNIT 1

MONTHLY OPERATING REPORT

DECEMBER 2002

STP NUCLEAR OPERATING COMPANY

NRC DOCKET NO. 50-498

LICENSE NO. NPF-76

Approved By: E.D. HALPIN

1/15/03
Date

MONTHLY SUMMARY

South Texas Project Unit 1 operated during the reporting period at full power with no unit shutdowns or significant power reductions.

OPERATING DATA REPORT

DOCKET NO. 50-498
UNIT 1
DATE Jan. 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

OPERATING STATUS

1. REPORTING PERIOD: 12/1/02-12/31/02 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (Mwt): 3,853
   MAXIMUM DEPENDABLE CAPACITY (MWe-Net): 1,250.6
   DESIGN ELECTRICAL RATING (MWe-Net): 1,250.6
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 CRITICAL	744.0	8,579.2	98,529.1
6.	REACTOR RESERVE SHUTDOWN HOURS	0	0	0
7.	HOURS GENERATOR ON LINE	744.0	8,573.4	96,893.1
8.	UNIT RESERVE SHUTDOWN HOURS	0	0	0
9.	GROSS THERMAL ENERGY GENERATED (MWH)	2,839,848	32,652,123	361,950,463
10.	NET ELECTRICAL ENERGY GENERATED (MWH)	953,549	10,867,941	118,216,055
11.	REACTOR SERVICE FACTOR (%)	100 0	97.9	78.3
12.	REACTOR AVAILABILITY FACTOR (%)	100.0	97.9	78.3
13.	UNIT SERVICE FACTOR (%)	100.0	97.9	77.0
14.	UNIT AVAILABILITY FACTOR (%)	100 0	97.9	77.0
15.	UNIT CAPACITY FACTOR - Using MDC (%)	102.5	99.2	75.1
16.	UNIT CAPACITY FACTOR - Using DER (%)	102.5	99.2	75.1
17.	UNIT FORCED OUTAGE RATE (%)	0.0	2.1	13.4

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

    Scheduled 22-day outage to allow scheduled refueling to begin on March 26, 2003.

19. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-498
UNIT 1
DATE Jan 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

MONTH DECEMBER

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1274	17	1284
2	1273	18	1284
3	1272	19	1272
4	1272	20	1287
5	1262	21	1286
6	1270	22	1285
7	1286	23	1283
8	1284	24	1284
9	1283	25	1286
10	1285	26	1286
11	1286	27	1285
12	1283	28	1286
13	1286	29	1285
14	1286	30	1284
15	1285	31	1285
16	1284		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-498
UNIT 1
DATE Jan. 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

REPORT MONTH DECEMBER

No.	Date	1 Type	Duration (Hours)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
	THERE WERE NO UNIT SHUTDOWNS OR SIGNIFICANT POWER REDUCTIONS DURING THE REPORTING PERIOD								

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 803-1983

PORVS AND SAFETY VALVE 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 2002

STP NUCLEAR OPERATING COMPANY

NRC DOCKET NO. 50-499

LICENSE NO. NPF-80

Approved By: E.D. HALPIN _____ Date 1/15/03

MONTHLY SUMMARY

South Texas Project Unit 2 began the reporting period shutdown for scheduled refueling and steam generator replacement. The unit was returned to service on December 6, at 0509 and full power was achieved on December 13, at 1114.

On December 15, at 1805 the reactor was manually tripped due to a sudden high main turbine vibration. After opening the turbine and condenser, one last row blade on low-pressure (LP) rotor 22 had separated from the rotor causing some collateral damage within LP 22. Numerous last row blade cracks were discovered during visual inspections of the blades on LP 22 and 23. Additional damage was found on stationary blades in 22, the exhaust flow guide and some condenser tubes. Metallurgical examinations found the cracks as a result of high cycle fatigue.

The unit remained shutdown at the end of the reporting period with repairs ongoing.

OPERATING DATA REPORT

DOCKETNO. 50-499
UNIT 2
DATE Jan. 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

OPERATING STATUS

1. REPORTING PERIOD: 12/1/02-12/31/02 GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3,853
   MAXIMUM DEPENDABLE CAPACITY (MWe-Net): 1,250.6
   DESIGN ELECTRICAL RATING (MWe-Net): 1,250.6
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 CRITICAL	263.4	6,743.7	94,557.7
6.	REACTOR RESERVE SHUTDOWN HOURS	0	0	0
7.	HOURS GENERATOR ON LINE	237.9	6,664.7	92,292.4
8.	UNIT RESERVE SHUTDOWN HOURS	0	0	0
9.	GROSS THERMAL ENERGY GENERATED (MWH)	795,432	25,253,119	344,413,651
10.	NET ELECTRICAL ENERGY GENERATED (MWH)	257,429	8,219,846	112,177,967
11.	REACTOR SERVICE FACTOR (%)	35.4	77.0	79.7
12.	REACTOR AVAILABILITY FACTOR (%)	35.4	77.0	79.7
13.	UNIT SERVICE FACTOR (%)	32.0	76 1	77.8
14.	UNIT AVAILABILITY FACTOR (%)	32.0	76.1	77.8
15.	UNIT CAPACITY FACTOR - Using MDC (%)	27.7	75.0	75.6
16.	UNIT CAPACITY FACTOR - Using DER (%)	27.7	75.0	75 6
17.	UNIT FORCED OUTAGE RATE (%)	62.1	7.5	13.5

18. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, & DURATION OF EACH): N/A

19. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 01/18/03

AVERAGE DAILY UNIT POWER LEVEL

DOCKETNO. 50-499
UNIT 2
DATE Jan. 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

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	2	21	0
6	294	22	0
7	894	23	0
8	1110	24	0
9	1210	25	0
10	1261	26	0
11	1272	27	0
12	1244	28	0
13	1212	29	0
14	1272	30	0
15	954	31	0
16	0		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-499
UNIT 2
DATE Jan. 8, 2003
COMPLETED BY R.L. Hill
TELEPHONE 361.972.7667

REPORT MONTH DECEMBER

No.	Date	1 Type	Duration (Hours)	2 Reason	3 Method of Shutting Down Reactor	Licensee Event Report #	4 System Code	5 Component Code	Cause & Corrective Action to Prevent Recurrence
02-03	021002	S	116.3	C	1	N/A	N/A	N/A	Scheduled outage to allow refueling and steam generator replacement.
02-04	021215	F	389.9	A	2	02-02-005	TA	TRB	Reactor manually tripped due to a sudden high main turbine vibration. After opening the turbine and condenser, one last row blade on low-pressure (LP) rotor 22 had separated from the rotor causing some collateral damage within LP 22. Numerous last row blade cracks were discovered during visual inspections of the blades on LP 22 and 23. Additional damage was found on stationary blades in 22, the exhaust flow guide and some condenser tubes. Metallurgical examinations found the cracks as a result of high cycle fatigue.

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

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IEEE 803-1983

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