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50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH.NAME AUTHOR AFFILIATION
HIRT,J.A. Pennsylvania Power & Light Co.
KEISER,H.W. Pennsylvania Power & Light Co.
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SUBJECT: Monthly operating repts for Oct 1988 for Susquehanna SES Units 1 & 2.W/ 881111 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

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M/R

SUSQUEHANNA STEAM ELECTRIC STATION
PP&L

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717) 542-3917

MONTH October, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1,041	17	1,045
2	1,037	18	1,046
3	1,047	19	1,052
4	1,051	20	1,054
5	1,008	21	1,052
6	682	22	1,053
7	991	23	1,050
8	1,054	24	1,053
9	1,053	25	1,052
10	1,049	26	1,051
11	1,052	27	1,052
12	1,054	28	1,050
13	1,054	29	1,051
14	1,052	30	1,049
15	1,049	31	1,052
16	1,044		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

IE24
1/1

SUSQUEHANNA STEAM ELECTRIC STATION

PP&L

OPERATING DATA REPORT

DOCKET NO. 50-387
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717)542-3917

OPERATING STATUS

1. Unit Name: Unit One Susquehanna Steam Electric Station
2. Reporting Period: October, 1988
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1150
6. Maximum Dependable Capacity (Gross MWe): 1068.5
7. Maximum Dependable Capacity (Net MWe): 1032

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report; Give Reasons:
No changes were made

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745	7,320	47,353
12. Number Of Hours Reactor Was Critical	745	6,825.7	35,477.8
13. Reactor Reserve Shutdown Hours	0	219.3	1,032
14. Hours Generator On-Line	745	6,743.2	34,690.2
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,415,905	21,738,727	107,792,204
17. Gross Electrical Energy Generated (MWH)	797,883	7,125,511	35,136,110
18. Net Electrical Energy Generated (MWH)	770,978	6,876,845	33,718,073
19. Unit Service Factor	100.0	92.1	73.3
20. Unit Availability Factor	100.0	92.1	73.3
21. Unit Capacity Factor (Using MDC Net)	100.3	91.0	69.0
22. Unit Capacity Factor (Using DER Net)	98.6	89.5	67.8
23. Unit Forced Outage Rate	0.0	5.7	9.9

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit 1 is currently scheduled to shutdown on April 1, 1989 for its 4th Refueling & Inspection outage. The outage is expected to last 77 days.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

SUSQUEHANNA STEAM ELECTRIC STATION
PP&L

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1988

DOCKET NO. 50-387
UNIT NAME SSES-Unit One
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717) 542-3917

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
10	881005	S	0	B	5	N/A	SG	COND	On October 5, 1988, at approximately 2000 hours, Operations personnel began reducing reactor power. A condenser tube leak was suspected to be causing high reactor coolant conductivity. Following the reduction to about 69%, plant personnel investigated and plugged one condenser tube. Plant operation was returned to 100% at approximately 1700 hours on October 7, 1988.

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance of 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-Continuation from previous month
5-Reduction
9-Other

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5.
Exhibit I - Same Source

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date 11/02/88

Completed by J.A. Hirt Telephone (717)542-3917

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None

SUSQUEHANNA STEAM ELECTRIC STATION

PP&L

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388
UNIT Two
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717) 542-3917

MONTH October, 1988

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1,046	17	1,050
2	1,042	18	1,050
3	1,052	19	1,057
4	1,055	20	669
5	1,055	21	682
6	1,055	22	983
7	1,056	23	1,052
8	780	24	1,052
9	758	25	1,054
10	1,031	26	1,055
11	1,054	27	1,057
12	1,008	28	1,052
13	603	29	1,055
14	892	30	1,056
15	1,048	31	1,062
16	1,048		

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

PP&L

OPERATING DATA REPORT

DOCKET NO. 50-388
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717)542-3917

OPERATING STATUS

1. Unit Name: Unit Two Susquehanns Steam Electric Station
2. Reporting Period: October, 1988
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1074.3
7. Maximum Dependable Capacity (Net MWe): 1037.8

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report; Give Reasons:
No changes were made.

9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	745	7,320	32,592
12. Number Of Hours Reactor Was Critical	745	4,692.9	26,284.9
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	745	4,528.4	25,689.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,307,190	14,132,542	80,758,255
17. Gross Electrical Energy Generated (MWH)	760,908	4,616,470	26,423,232
18. Net Electrical Energy Generated (MWH)	734,696	4,427,155	25,424,830
19. Unit Service Factor	100.0	61.9	78.8
20. Unit Availability Factor	100.0	61.9	78.8
21. Unit Capacity Factor (Using MDC Net)	95.0	58.3	75.2
22. Unit Capacity Factor (Using DER Net)	93.9	57.6	74.3
23. Unit Forced Outage Rate	0.0	0.1	7.7

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit Two is not currently scheduled to shutdown with the next six months.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A
26. Units In Test Status (Prior to Commercial Operation):

	Forecast	Achieved
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1988

DOCKET NO. 50-388
UNIT NAME SSES-Unit Two
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717) 542-3917

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
8	881008	S	0	B	5	N/A	SG	COND	On October 8, 1988 at about 0100 hours, personnel began reducing reactor power to permit an investigation of the condenser. Minimum reactor power reached was approximately 60%. A tube leak is believed to be causing higher than normal reactor coolant conductivity. The tube leak, however, could not be found. Reactor power returned to 100% on October 10, 1988, at about 1100 hours.
9	881012	S	0	B	5	N/A	SG	COND	On October 12, 1988, at approximately 2000 hours, Operations personnel began to reduce reactor power to about 60% to further pursue investigation of the condenser. No condenser tube leaks could be found. Power was increased following the investigation. Reactor power returned to 100%

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-Continuation from previous month
5-Reduction
9-Other

4 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5 Exhibit I - Same Source

(9/77)

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1988

DOCKET NO. 50-388
UNIT NAME SSES-Unit Two
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717)542-3917

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
9 Cont.	881012	S	0	B	5	N/A	SG	COND	at about 0400 hours on October 15, 1988. Apparently, the size of the leak is too small to be identified with the current methodologies (helium and plastic sheets).
10	881020	S	0	B	5	N/A	SG	COND	On October 20, 1988, at approximately 0200 hours, Operations personnel began to reduce reactor power to about 50% to support another attempt to identify the condenser tube leak(s). No leaks could be found. Plant personnel did reinforce a hypothesis of the relationship between circulation water temperature and the size of the tube leaks. Apparently, as circ water temperature decreases, the size of the leak increases, and as a result, reactor conductivity increases. Reactor power returned to 100% at

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance of 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-Continuation from previous month
5-Reduction
9-Other

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

5
Exhibit I - Same Source

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION
PP&L

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1988

DOCKET NO. 50-388
UNIT NAME SSES-Unit Two
DATE 11/02/88
COMPLETED BY J.A. Hirt
TELEPHONE (717) 542-3917

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
10 Cont.	881020	S	0	B	5	N/A	SG	COND	about 1900 hours on October 22, 1988. Efforts are continuing to identify the leak(s).

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)

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Method:
1-Manual
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Exhibit I - Same Source

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 11/02/88

Completed by J.A. Hirt Telephone (717)542-3917

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None

PP&L Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

Harold W. Keiser
Senior Vice President-Nuclear
215/770-4194

NOV 1 1 1988

Mr. William G. McDonald
Director, Office of Administration
and Resources Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-3113 FILE R41-2A

Docket Nos. 50-387/NPF-14
50-388/NPF-22

Dear Mr. McDonald:

The October 1988 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

H. W. Keiser

H. W. Keiser

Attachment

cc: Document Control Desk (Original)
NRC Region I
Mr. F. I. Young - NRC Sr. Resident Inspector
Mr. M. C. Thadani - NRC Project Manager

IE24