

REGULARY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8801150195 DOC. DATE: 87/12/31 NOTARIZED: NO DOCKET #
 .FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388

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 KEISER, H. W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

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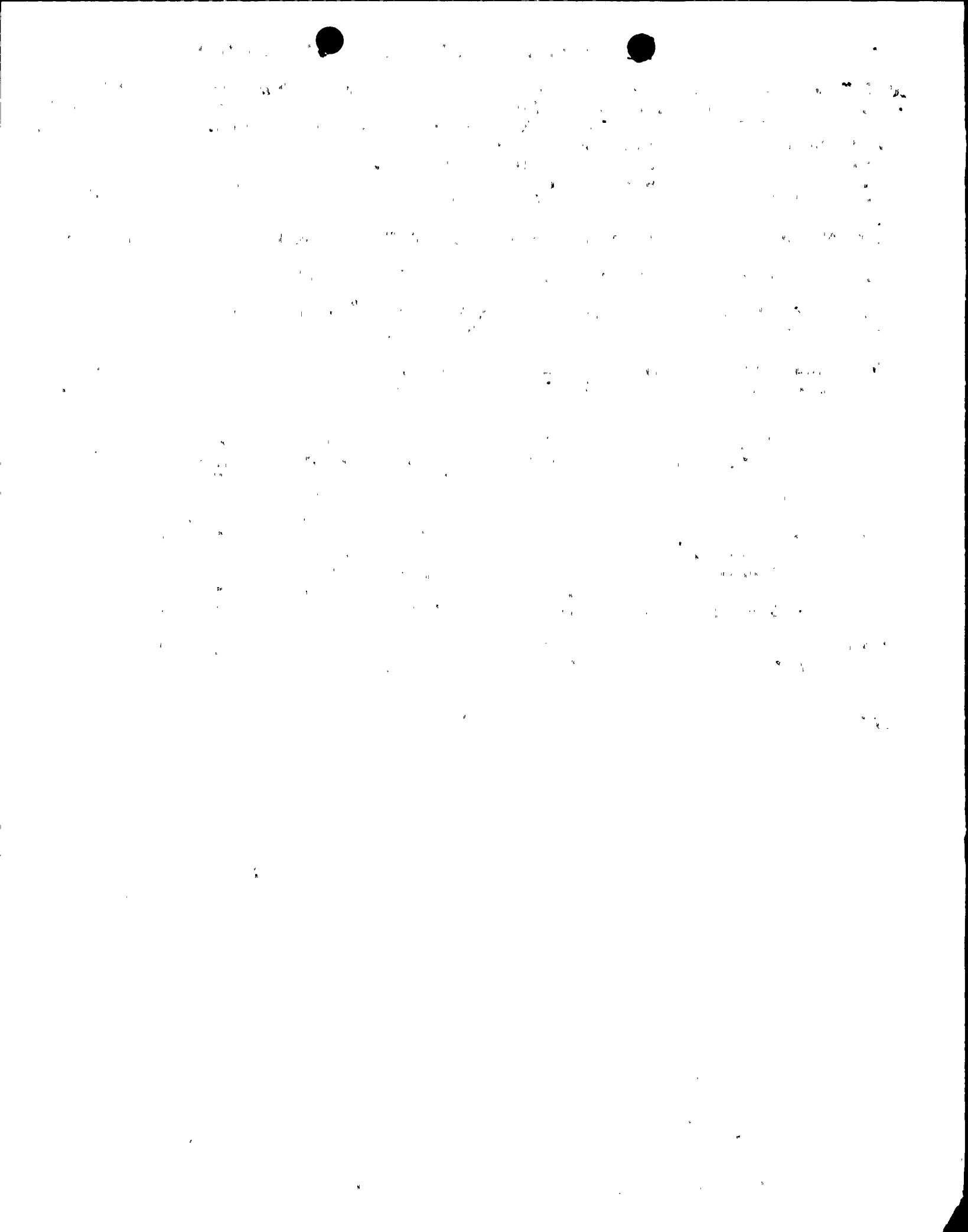
SUBJECT: Monthly operating repts for Dec 1988. W/880112 1tr.

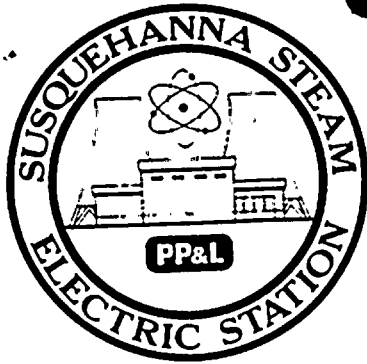
DISTRIBUTION CODE: IE24D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 11
 TITLE: Monthly Operating Report (per Tech Specs)

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387
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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
 UNIT One
 DATE 01/08/88
 COMPLETED BY J.A. Hirt
 TELEPHONE (717)542-3917

MONTH December, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	875
2	792
3	967
4	1052
5	1055
6	1054
7	1054
8	1050
9	960
10	584
11	642
12	977
13	1053
14	1053
15	1053
16	1053

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1054
18	460
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	415
31	906

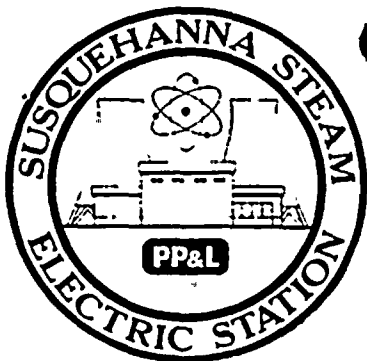
INSTRUCTIONS

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.

8801150195 871231
 PDR ADOCK 05000387
 R. PDR

(9/77)

JE 24 1/1



OPERATING DATA REPORT

DOCKET NO. 50-387
 DATE 01/08/88
 COMPLETED BY J.A. Hirt
 TELEPHONE (717)542-3917

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: December, 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1068
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:
None

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	<u>744</u>	<u>8,760</u>	<u>40,033</u>
12. Number Of Hours Reactor Was Critical	<u>510.4</u>	<u>6,464.6</u>	<u>28,652.1</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>812.7</u>
14. Hours Generator On-Line	<u>469.2</u>	<u>6,333</u>	<u>27,947</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,377,762</u>	<u>19,770,339</u>	<u>86,053,477</u>
17. Gross Electrical Energy Generated (MWH)	<u>451,084</u>	<u>6,423,061</u>	<u>28,010,599</u>
18. Net Electrical Energy Generated (MWH)	<u>430,505</u>	<u>6,166,199</u>	<u>26,841,228</u>
19. Unit Service Factor	<u>63.1</u>	<u>72.3</u>	<u>69.8</u>
20. Unit Availability Factor	<u>63.1</u>	<u>72.3</u>	<u>69.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>56.1</u>	<u>68.2</u>	<u>65.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>54.3</u>	<u>66.1</u>	<u>63.0</u>
23. Unit Forced Outage Rate	<u>36.9</u>	<u>9.6</u>	<u>10.9</u>

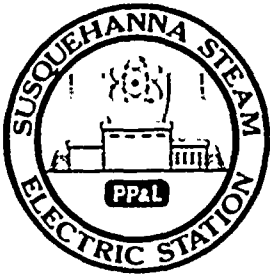
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
No shutdowns are currently scheduled within the next six months.

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	<u> </u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>



U E A U



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December, 1987

DOCKET NO. 50-387
 UNIT NAME SSES Unit One
 DATE 01/08/88
 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
7	871209	S	0	B	5	N/A	ZZZZ	ZZZZZZ	Operations personnel began a power reduction to approximately 60% power on December 9 at 1900 hours. The reduction was required so that base-line APRM and LPRM neutron flux noise values could be obtained with one recirculation pump in operation. This was required per Technical Specification 4.4.1.1.2.4. After the surveillance was completed, operators increased reactor power, with 100% power operation being achieved at 1410 hours on December 12, 1987.

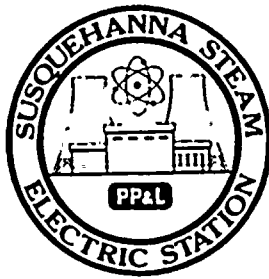
¹
 F: Forced
 S: Scheduled

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



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December, 1987

DOCKET NO. 50-387
 UNIT NAME SSES Unit One
 DATE 01/08/88
 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	871218	F	274.8	F	1	NA	SG	Cond	On December 18, 1987, Unit One was manually shutdown by Operations personnel due to reactor vessel conductivity exceeding Administrative limits. Following the shutdown, Maintenance personnel plugged tubes in the condenser which were identified to be leaking circulation water into the condenser. Operations personnel brought the unit to criticality on December 22nd at 1710 hours. Approximately twenty minutes later the unit went sub-critical when operations personnel isolated the 'A' intermediate pressure condenser waterbox due to a manway gasket leaking. The unit regained criticality at 2100 hours. On December 23rd, the unit was

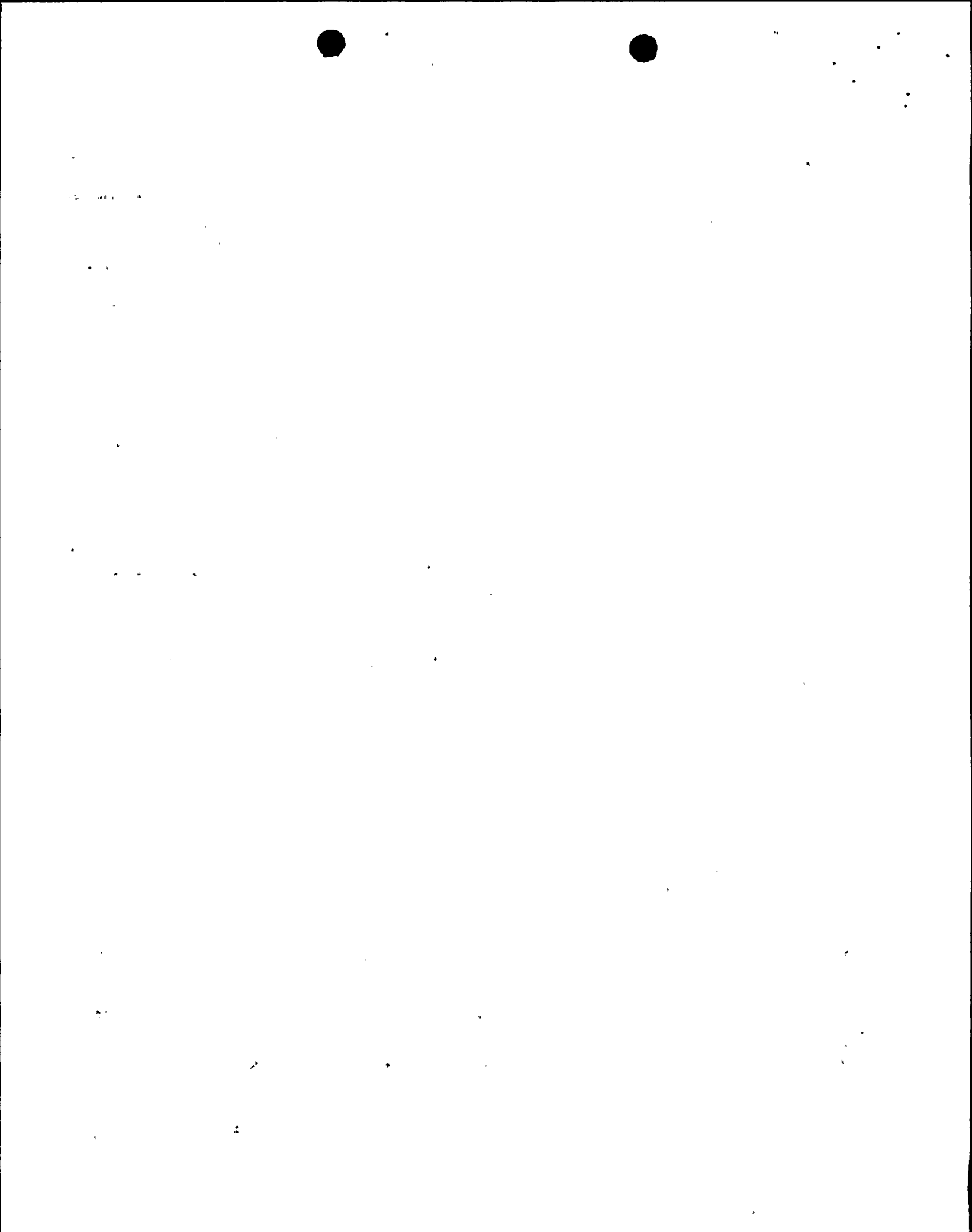
1
 F: Forced
 S: Scheduled

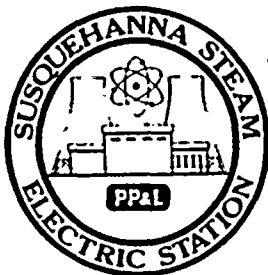
2
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

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





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1987

DOCKET NO. 50-387
 UNIT NAME SSES Unit One
 DATE 01/08/88
 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									(Continued from previous page) manually shutdown when another manway gasket was discovered to be leaking. Following the shutdown all manway gaskets were reinspected. The unit was then restarted by operations personnel with criticality being achieved on December 29th at 1200 hours. Unit one sychronized to the grid on the 30th at 0313 hours. Shortly after sychronization the turbine tripped on high moisture separator drain tank level. The high tank level resulted from a motor operated isolation valve not opening completely. The valve operator breaker was reset and the valve operated properly. The unit was resynchronized at 0356 hours.

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.
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from previous month
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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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date 01/08/88

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

Challenges to Main Steam Safety Relief Valves

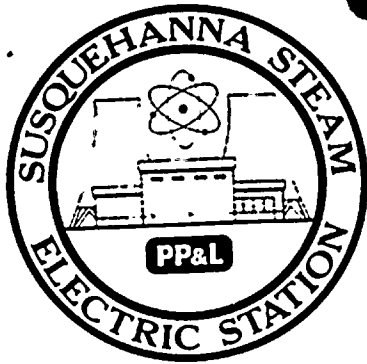
None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None



AVERAGE DAILY UNIT POWER LEVEL

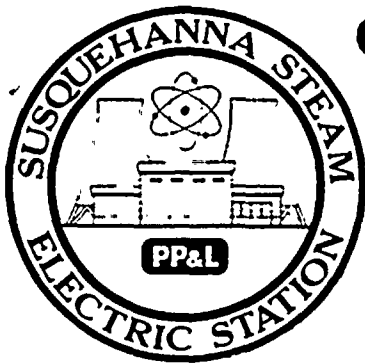
DOCKET NO. 50-388
UNIT Two
DATE 01/08/88
COMPLETED BY J.A. Hirt
TELEPHONE (717)542-3917

MONTH December, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1046</u>	17	<u>1048</u>
2	<u>1048</u>	18	<u>1049</u>
3	<u>979</u>	19	<u>1048</u>
4	<u>1008</u>	20	<u>1045</u>
5	<u>849</u>	21	<u>976</u>
6	<u>1042</u>	22	<u>1035</u>
7	<u>1049</u>	23	<u>1048</u>
8	<u>1049</u>	24	<u>1048</u>
9	<u>1048</u>	25	<u>1046</u>
10	<u>1048</u>	26	<u>1048</u>
11	<u>1048</u>	27	<u>1047</u>
12	<u>1041</u>	28	<u>1048</u>
13	<u>1021</u>	29	<u>1048</u>
14	<u>1048</u>	30	<u>1050</u>
15	<u>1047</u>	31	<u>1049</u>
16	<u>1048</u>		

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.



OPERATING DATA REPORT

DOCKET NO. 50-388
 DATE 01/08/88
 COMPLETED BY J.A. Hirt
 TELEPHONE (717)542-3917

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: December, 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1068
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:

None

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	<u>744</u>	<u>8,760</u>	<u>25,272</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>8,484</u>	<u>21,592</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>744</u>	<u>8,431.6</u>	<u>21,160.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,426,733</u>	<u>27,232,828</u>	<u>66,625,713</u>
17. Gross Electrical Energy Generated (MWH)	<u>796,856</u>	<u>8,902,468</u>	<u>21,806,762</u>
18. Net Electrical Energy Generated (MWH)	<u>769,251</u>	<u>8,595,146</u>	<u>20,997,675</u>
19. Unit Service Factor	<u>100.0</u>	<u>96.3</u>	<u>83.7</u>
20. Unit Availability Factor	<u>100.0</u>	<u>96.3</u>	<u>83.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.2</u>	<u>95.1</u>	<u>80.5</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.1</u>	<u>92.1</u>	<u>78.0</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>3.7</u>	<u>9.2</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

A refueling outage is scheduled to begin March 5, 1988 and end May 21, 1988.
The duration is 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



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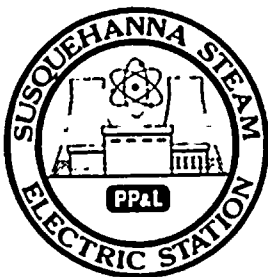
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12



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December, 1987

DOCKET NO. 50-388
 UNIT NAME SSES-Unit Two
 DATE 01/08/88
 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
									There were no unit shutdowns or significant power reductions for December, 1987.

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.
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 Exhibit G - Instructions
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⁵
 Exhibit I - Same Source

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 01/08/88

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



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
Vice President-Nuclear Operations
215/770-7502

JAN 12 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-2964 FILE R41-2A

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

Dear Mr. McDonald:

The December 1987 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

H. W. Keiser
Vice President-Nuclear Operations

Attachment

cc: Document Control Desk (Original)
NRC Region I
Mr. J. Stair - NRC Resident
Mr. M. C. Thadani - NRC Project Manager

