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ACCESSION NBR: 8910260173 DOC. DATE: 89/09/30 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHORITY AFFILIATION
 YOUNG, K.A. Pennsylvania Power & Light Co.
 KEISER, H.W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Sept 1989 for Susquehanna Steam Electric Station Units 1 & 2.W/891017 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 10
 TITLE: Monthly Operating Report (per Tech Specs)

NOTES: LPDR 1 cy Transcripts. 05000387
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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101-1179 • 215/770-5151

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

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

OCT 17 1989

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- 3278 FILE R41-2A

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

Dear Mr. McDonald:

The September 1989 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

H. W. Keiser

Attachment

cc: Document Control Desk (Original)
NRC Region I
Mr. G. S. Barber - NRC Resident Inspector
Mr. M. C. Thadani - NRC Project Manager

IE24
11

8910260173 890930
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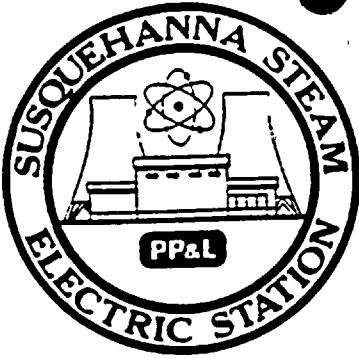
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AVERAGE DAILY UNIT POWER LEVEL

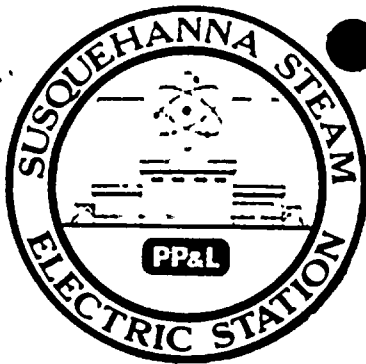
DOCKET NO. 50-387
UNIT One
DATE 10-9-89
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH September 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1036</u>	17	<u>1041</u>
2	<u>1042</u>	18	<u>1042</u>
3	<u>1047</u>	19	<u>1043</u>
4	<u>1049</u>	20	<u>1038</u>
5	<u>1049</u>	21	<u>1032</u>
6	<u>1044</u>	22	<u>1022</u>
7	<u>1043</u>	23	<u>1043</u>
8	<u>826</u>	24	<u>1052</u>
9	<u>0</u>	25	<u>1050</u>
10	<u>0</u>	26	<u>1048</u>
11	<u>0</u>	27	<u>1053</u>
12	<u>109</u>	28	<u>1051</u>
13	<u>649</u>	29	<u>1046</u>
14	<u>732</u>	30	<u>1051</u>
15	<u>834</u>	31	<u> </u>
16	<u>1038</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. 50-387
 DATE 10-9-89
 COMPLETED BY K. A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: September 1989
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): 1069.3
7. Maximum Dependable Capacity (Net MWe): 1032.7
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

No changes were made.

Notes

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>720</u>	<u>6551</u>	<u>55,368</u>
12. Number Of Hours Reactor Was Critical	<u>656.8</u>	<u>4,405.3</u>	<u>41,347.1</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1032</u>
14. Hours Generator On-Line	<u>640.0</u>	<u>4,273.7</u>	<u>40,427.0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,993,043</u>	<u>13,464,282</u>	<u>126,067,793</u>
17. Gross Electrical Energy Generated (MWH)	<u>649,224</u>	<u>4,396,652</u>	<u>41,120,512</u>
18. Net Electrical Energy Generated (MWH)	<u>625,179</u>	<u>4,213,104</u>	<u>39,458,585</u>
19. Unit Service Factor	<u>88.9</u>	<u>65.2</u>	<u>73.0</u>
20. Unit Availability Factor	<u>88.9</u>	<u>65.2</u>	<u>73.0</u>
21. Unit Capacity Factor (Using MDC Net)	<u>84.1</u>	<u>62.3</u>	<u>69.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>82.7</u>	<u>61.3</u>	<u>67.9</u>
23. Unit Forced Outage Rate	<u>11.1</u>	<u>11.4</u>	<u>9.9</u>

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

None scheduled.

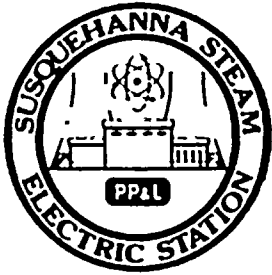
25. If Shut Down At End Of Report Period, Estimated Date of Startup: _____

26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast

Achieved



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 10-9-89
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

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
11	890908	F	80.0	B	1	89-023-0	BF	VACB	Unit one was manually shutdown commencing at 1700 hours and generator was taken off line at 2229 hours September 9. Decision to shutdown was made when containment vacuum breakers were declared potentially inoperative during a Plant Operating Review Committee meeting. Instrument air lines to the containment vacuum breakers did not have an orifice installed that was designed to limit closing velocity of these valves during accident cycling conditions. Necessary replacements were performed and Unit startup commenced at 0629 hours, September 12.

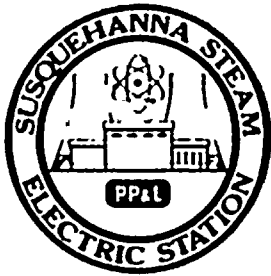
¹
 F: Forced
 S: Scheduled

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 C - 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 September 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 10-9-89
 COMPLETED BY K. A. Young
 TELEPHONE (717) 542-3251

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
12	890913	F	0.0	A	5	N/A	SJ	V	During power ascension following containment vacuum breaker outage (no. 11), reactor power level was held at 75 percent beginning at noon on September 13. The 'B' reactor feed pump discharge valve was thermally locked in a closed position. Valve was successfully opened by maintenance team. Power ascension commenced at 1300 hours September 15 with full power reached at 0500 hours September 16, 1989.

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
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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 10/09/89

Completed by K.A. Young Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

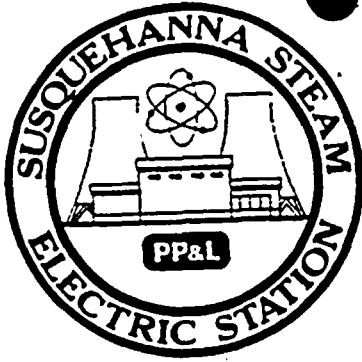
None

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 10-9-89

COMPLETED BY K.A. Young

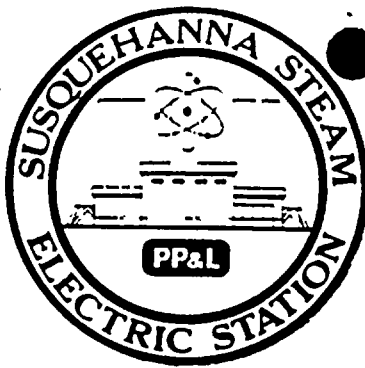
TELEPHONE (717) 542-3251

MONTH September 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1030	17	0
2	1036	18	0
3	1042	19	0
4	1043	20	0
5	1041	21	0
6	1039	22	0
7	1036	23	0
8	1035	24	0
9	879	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	
16	0		

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 10-9-89
 COMPLETED BY K.A. Young
 TELEPHONE (717)542-3252

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: September 1989
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): 1074.6
7. Maximum Dependable Capacity (Net MWe): 1038.2
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
No changes were made.

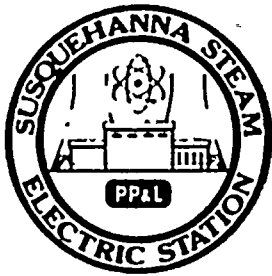
Notes

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>720</u>	<u>6,551</u>	<u>40,607</u>
12. Number Of Hours Reactor Was Critical	<u>231.7</u>	<u>5,889.9</u>	<u>33,638.8</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>216.2</u>	<u>5,824.4</u>	<u>32,972.5</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>701,840</u>	<u>18,687,839</u>	<u>104,063,442</u>
17. Gross Electrical Energy Generated (MWH)	<u>228,562</u>	<u>6,128,496</u>	<u>34,075,325</u>
18. Net Electrical Energy Generated (MWH)	<u>215,583</u>	<u>5,906,548</u>	<u>32,796,609</u>
19. Unit Service Factor	<u>30.0</u>	<u>88.9</u>	<u>81.2</u>
20. Unit Availability Factor	<u>30.0</u>	<u>88.9</u>	<u>81.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>28.9</u>	<u>86.9</u>	<u>77.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>28.5</u>	<u>85.9</u>	<u>76.9</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>2.3</u>	<u>6.8</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit two commenced its Third Refueling Outage on September 9, 1989.
Duration of this outage plan is eleven weeks.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: November 25, 1989
 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> |



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 10-9-89
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

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
11	890910	S	503.8	C	1	NA	XX	ZZZ	Unit Two was manually shutdown for it's planned third refuel and inspection outage (3 RIO) commencing at 1833 hours September 9. Generator was taken off line at 0010 hours September 10. Planned outage length is for eleven week. Estimated return to service date is November 24, 1989.

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)
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⁵
 Exhibit I - Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 10/09/89

Completed by K.A. Young Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None