

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8911280365      DOC. DATE: ~~89/10/31~~      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      AUTHOR AFFILIATION  
 YOUNG, K.A.      Pennsylvania Power & Light Co.  
 KEISER, H.W.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Oct 1989 for Susquehanna SES  
 Units 1 & 2, w/891115 ltr.

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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

NOV 15 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-3296 FILE R41-2A

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

Dear Mr. McDonald:

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

Very truly yours,

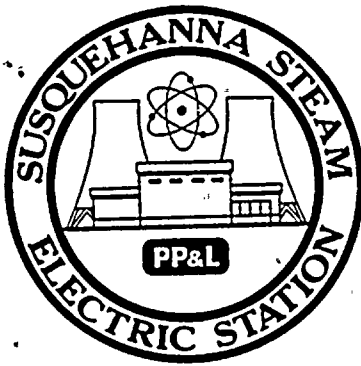
  
for H. W. Keiser

Attachment

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

8911280365 891031  
PDR ADOCK 05000387  
R PDC





AVERAGE DAILY UNIT POWER LEVEL

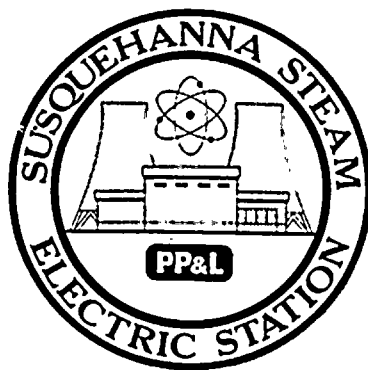
DOCKET NO. 50-387  
UNIT One  
DATE 11-5-89  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

MONTH October 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1046</u>	17	<u>1042</u>
2	<u>1040</u>	18	<u>1053</u>
3	<u>1047</u>	19	<u>1055</u>
4	<u>1054</u>	20	<u>1056</u>
5	<u>1052</u>	21	<u>1056</u>
6	<u>1017</u>	22	<u>1052</u>
7	<u>880</u>	23	<u>1053</u>
8	<u>1054</u>	24	<u>1051</u>
9	<u>1054</u>	25	<u>1048</u>
10	<u>1052</u>	26	<u>1047</u>
11	<u>1052</u>	27	<u>1047</u>
12	<u>1048</u>	28	<u>1046</u>
13	<u>1047</u>	29	<u>1044</u>
14	<u>1047</u>	30	<u>1043</u>
15	<u>1038</u>	31	<u>1043</u>
16	<u>1039</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 11-5-89  
 COMPLETED BY K. A. Young  
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: October 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

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	<u>745</u>	<u>7,296</u>	<u>56,113</u>
12. Number Of Hours Reactor Was Critical	<u>745</u>	<u>5,150.3</u>	<u>42,092.1</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,032.7</u>
14. Hours Generator On-Line	<u>745</u>	<u>5,018.7</u>	<u>41,172.0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,438,378</u>	<u>15,902,660</u>	<u>128,506,171</u>
17. Gross Electrical Energy Generated (MWH)	<u>802,840</u>	<u>5,199,492</u>	<u>41,923,352</u>
18. Net Electrical Energy Generated (MWH)	<u>776,317</u>	<u>4,989,421</u>	<u>40,234,902</u>
19. Unit Service Factor	<u>100.0</u>	<u>68.8</u>	<u>73.4</u>
20. Unit Availability Factor	<u>100.0</u>	<u>68.8</u>	<u>73.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>101.0</u>	<u>66.2</u>	<u>69.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.2</u>	<u>65.1</u>	<u>68.3</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>9.9</u>	<u>9.7</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:

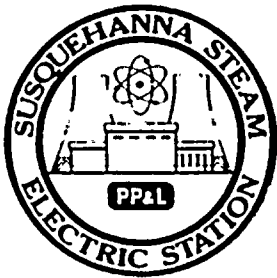
26. Units In Test Status (Prior to Commercial Operation):

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

Forecast

Achieved

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH October, 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 11-5-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
13	891006	S	0	B	5	N/A	ZZ	ZZZ	Commencing at 2200 hours October 6, Unit One Reactor power was reduced to 55% for scheduled maintenance outage. Control rod sequence exchange was completed and reactor returned to 100% level at 2400 hours October 7.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Continuation  
 from previous month  
 5-Reduction  
 9-Other

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

<sup>5</sup>  
 Exhibit I - Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date 11-5-89

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

Challenges to Main Steam Safety Relief Valves

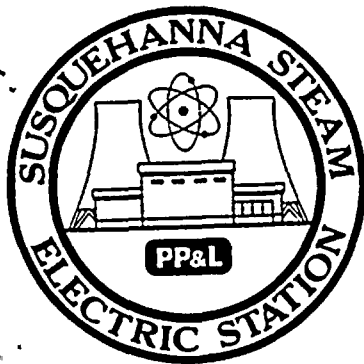
None

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 11-5-89  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

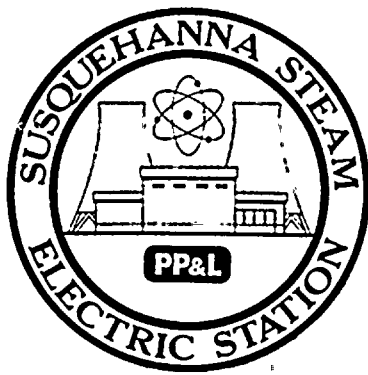
MONTH October 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</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 11-5-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3252

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: October 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

Notes

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

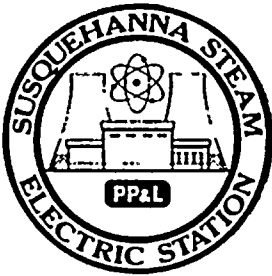
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>745</u>	<u>7,296</u>	<u>41,352</u>
12. Number Of Hours Reactor Was Critical	<u>0</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>0</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>0</u>	<u>18,687,839</u>	<u>104,063,442</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>6,128,496</u>	<u>34,075,325</u>
18. Net Electrical Energy Generated (MWH)	<u>-6,420</u>	<u>5,900,128</u>	<u>32,790,189</u>
19. Unit Service Factor	<u>0</u>	<u>79.8</u>	<u>79.7</u>
20. Unit Availability Factor	<u>0</u>	<u>79.8</u>	<u>79.7</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>77.9</u>	<u>76.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>77.0</u>	<u>75.5</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 October 1989

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 11-5-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence.
11	890910	S	745.0	C	4	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 weeks. Estimated return to service date is November 24, 1989.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Continuation  
 from previous month  
 5-Reduction  
 9-Other

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

<sup>5</sup>  
 Exhibit I - Same Source



22

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388      Date 11-5-89

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