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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 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 Aug 1990 for Susquehanna Steam Electric Station. W/900918 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

SEP 18 1990

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-3446 FILE R41-2A**

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

Dear Mr. McDonald:

The August 1990 monthly operating reports for Susquehanna SES
Units 1 and 2 are attached.

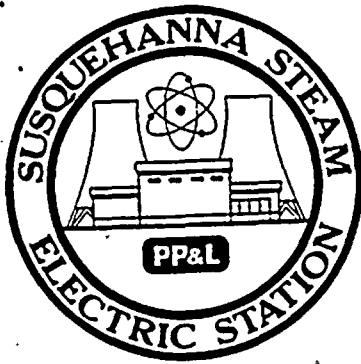
Very truly yours,

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

9009260067 900831
PDR ADOCK 05000387
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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
 UNIT One
 DATE 9-10-90
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

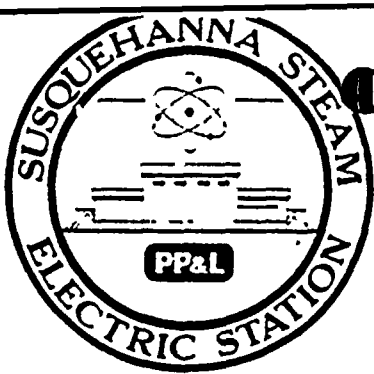
MONTH August 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1035
2	1034
3	1029
4	1028
5	888
6	673
7	966
8	1032
9	1035
10	1033
11	1025
12	1027
13	1027
14	1032
15	1032
16	1031

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1025
18	1022
19	1024
20	1041
21	1039
22	1034
23	1034
24	1028
25	1024
26	1025
27	1024
28	1026
29	1031
30	1034
31	1034

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 9-7-90
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: August 1990
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): 1069.6
7. Maximum Dependable Capacity (Net MWe): 1033.1

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
Summer rating for 1990 has been incorporated into maximum dependable capacity calculations. Ratings are average of summer ratings for eight years commercial operation.

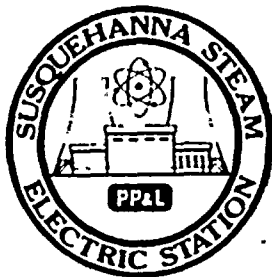
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,831</u>	<u>63,408</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>5448.9</u>	<u>48,983.2</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,032</u>
14. Hours Generator On-Line	<u>744</u>	<u>5351.5</u>	<u>47,952.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,414,088</u>	<u>17,096,225</u>	<u>150,266,871</u>
17. Gross Electrical Energy Generated (MWH)	<u>779,206</u>	<u>5,572,498</u>	<u>49,030,338</u>
18. Net Electrical Energy Generated (MWH)	<u>752,874</u>	<u>5,372,375</u>	<u>47,087,047</u>
19. Unit Service Factor	<u>100</u>	<u>91.8</u>	<u>75.6</u>
20. Unit Availability Factor	<u>100</u>	<u>91.8</u>	<u>75.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>98.0</u>	<u>89.2</u>	<u>71.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.4</u>	<u>87.8</u>	<u>70.7</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>4.5</u>	<u>9.0</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit 1 is scheduled for its Fifth Refueling and Inspection Outage from 9-8-90 through 11-23-90.

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

26. Units In Test Status (Prior to Commercial Operation):	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1990

DOCKET NO. 50-387
 UNIT NAME One
 DATE 9-7-90
 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
9	900805	S	0.0	B	5	N/A	SG	COND	Unit One commenced a power reduction to 60% for a partial maintenance outage at 1600 hours August 5. Tube leaks were identified in IP water box "D" and plugged repairs were made. Unit returned to full power level at 0945 hours August 7th.

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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387

Date August 1990

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

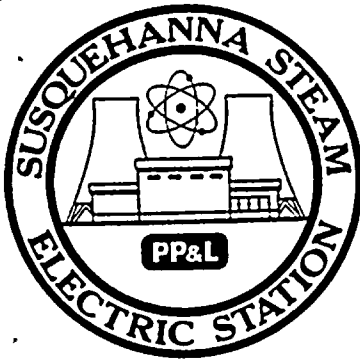
Major Changes to Radioactive Waste Treatment Systems

None

1950

1951

1952



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388

UNIT Two

DATE 9-7-90

COMPLETED BY K. A. Young

TELEPHONE (717) 542-3251

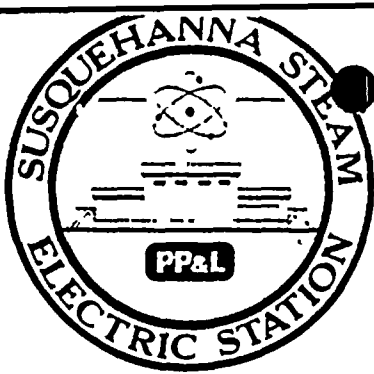
MONTH August 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1042</u>
2	<u>1038</u>
3	<u>1034</u>
4	<u>1032</u>
5	<u>1033</u>
6	<u>1031</u>
7	<u>1036</u>
8	<u>1037</u>
9	<u>1037</u>
10	<u>1037</u>
11	<u>1031</u>
12	<u>974</u>
13	<u>808</u>
14	<u>958</u>
15	<u>1035</u>
16	<u>1035</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1013</u>
18	<u>812</u>
19	<u>992</u>
20	<u>1046</u>
21	<u>1044</u>
22	<u>1040</u>
23	<u>1038</u>
24	<u>1035</u>
25	<u>1032</u>
26	<u>1030</u>
27	<u>1030</u>
28	<u>1031</u>
29	<u>1035</u>
30	<u>1038</u>
31	<u>1036</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 9-10-90
 COMPLETED BY K.A. Young
 TELEPHONE (717)542-3251

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: August 1990
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): 1075.5
7. Maximum Dependable Capacity (Net MWe): 1039.0

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
Summer rating for 1990 has been incorporated into maximum dependable capacity calculations. Ratings are average summer ratings for six years commercial operation.

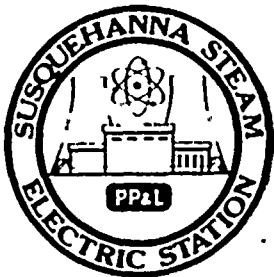
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,831</u>	<u>48,647</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>5291.0</u>	<u>39,956.3</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>5,251.9</u>	<u>39,147.2</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,411,107</u>	<u>17,087,369</u>	<u>123,895,344</u>
17. Gross Electrical Energy Generated (MWH)	<u>782,386</u>	<u>5,603,322</u>	<u>40,591,235</u>
18. Net Electrical Energy Generated (MWH)	<u>754,840</u>	<u>5,399,087</u>	<u>39,059,768</u>
19. Unit Service Factor	<u>100</u>	<u>90.1</u>	<u>80.5</u>
20. Unit Availability Factor	<u>100</u>	<u>90.1</u>	<u>80.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.7</u>	<u>89.1</u>	<u>77.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.6</u>	<u>88.2</u>	<u>76.5</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>7.6</u>	<u>6.7</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):	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1990

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 9-7-90
 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
4	900812	F	0.0	A	5	N/A	SJ	RV	Unit 2 commenced a power reduction to 80% at 1800 hours August 12th. Partial forced outage was entered to remove "A" reactor feedwater pump from service. A one inch crack in the discharge line for the "A" feedwater pump suction pressure relief valve was repaired. The pressure relief valve which had been lifting was reworked. The "A" feedpump was placed back in service and Unit Two returned to full power level at 1630 hours August 14th.

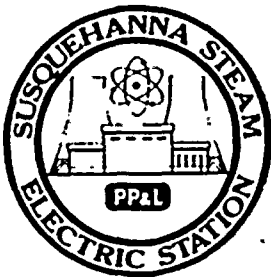
¹
 F: Forced
 S: Scheduled

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 August 1990

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 9-10-90
 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
5	900817	S	0.0	B	5	N/A	SJ	RV	Unit Two commenced a power reduction to 80% at 2200 hours August 17th. A partial maintenance outage was entered to remove the "C" reactor feedwater pump (RFP) from service. The pressure relief valve on "C" RFP suction piping had been lifting. Repairs were made to this valve. The "C" feedpump was placed back in service and Unit Two returned to full power level at 1300 hours August 19th.

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

Susquehanna Steam Electric Station

Docket Number 50-388

Date August 1990

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



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