





**Pennsylvania Power & Light Company**

Two North Ninth Street • Allentown, PA 18101-1179 • 215/774-5151

Harold W. Keiser  
Senior Vice President-Nuclear  
215/774-4194

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

SEP 16 1991

U.S. Nuclear Regulatory Commission  
Attn.: Document Control Desk  
Washington, D.C. 20555

**SUSQUEHANNA STEAM ELECTRIC STATION**  
**MONTHLY OPERATING REPORTS**  
**PLA-3650 FILE R41-2A**

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

The August 1991 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

H. W. Keiser

Attachment

cc: NRC Region I

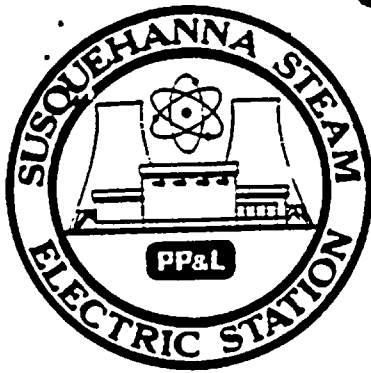
Mr. G. S. Barber, NRC Resident Inspector  
Mr. J. J. Raleigh, NRC Project Manager

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387  
 UNIT One  
 DATE 9-5-91  
 COMPLETED BY L.L. Fuller  
 TELEPHONE (717) 542-3858

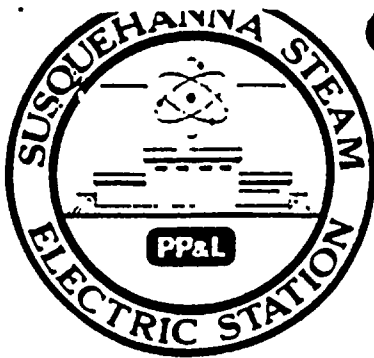
MONTH August 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	0
4	0
5	0
6	0
7	163
8	748
9	1001
10	1034
11	1035
12	1034
13	1031
14	1029
15	1030
16	1030

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1028
18	1026
19	1029
20	1033
21	1033
22	1031
23	1030
24	1029
25	1033
26	1033
27	1029
28	1024
29	1022
30	1022
31	1026

**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 9-5-91  
 COMPLETED BY L. L. Fuller  
 TELEPHONE (717) 542-3858

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: August 1991
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): 1078
7. Maximum Dependable Capacity (Net MWe): 1040

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons: Summer seasonal rating changed due to establishment of a summer rating and going to partial arc steam admission.

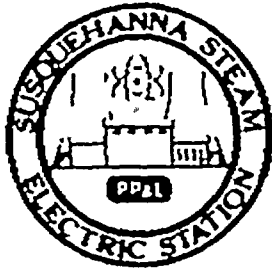
9. Power Level To Which Restricted, If Any (Net MWe): None.
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5831</u>	<u>72,168</u>
12. Number Of Hours Reactor Was Critical	<u>619.9</u>	<u>5693.5</u>	<u>55,996.9</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1032</u>
14. Hours Generator On-Line	<u>594.1</u>	<u>5667.7</u>	<u>54,799.8</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,887,965</u>	<u>18,264,343</u>	<u>171,970,467</u>
17. Gross Electrical Energy Generated (MWH)	<u>610,820</u>	<u>5,998,004</u>	<u>56,151,624</u>
18. Net Electrical Energy Generated (MWH)	<u>587,099</u>	<u>5,786,907</u>	<u>53,937,582</u>
19. Unit Service Factor	<u>79.9</u>	<u>97.2</u>	<u>75.9</u>
20. Unit Availability Factor	<u>79.9</u>	<u>97.2</u>	<u>75.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>75.9</u>	<u>95.4</u>	<u>71.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>75.2</u>	<u>94.5</u>	<u>71.2</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0.2</u>	<u>8.0</u>

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

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 1991

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 9-5-91  
 COMPLETED BY L.L. Fuller  
 TELEPHONE (717) 542-3858

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
8	910801	S	149.9	B	9	91-008-00	AD	LU	<p>Forced Outage (No. 7) as reported in the July report (Auto scram 1034 hours July 31) was converted to scheduled status as of midnight July 31. Decision was made to enter a maintenance outage one week earlier than schedule. Containment entry was made to inspect the "B" recirculation pump motor for lubrication levels. The cause of auto scram, faulty relay at Montour, was replaced and the failed capacitor in the B MSL Rad. Monitor was replaced. Corrective Actions to switchyard operation and associated communications that affect Susquehanna are being evaluated. Unit 1 returned to service on August 7 and returned to 100% power on August 9 @ 1050.</p>

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

<sup>2</sup>  
 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)

<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 C - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

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

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SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387

Date 9-5-91

Completed By L.L. Fuller

Telephone (717)542-3858

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

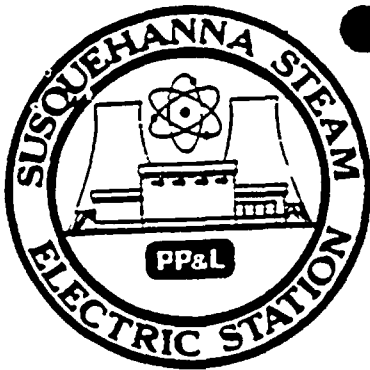
1951

1952

1953

1954





AVERAGE DAILY UNIT POWER LEVEL

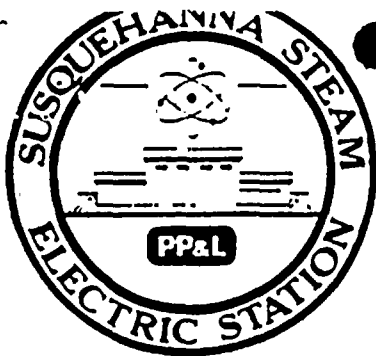
DOCKET NO. 50-388  
 UNIT Two  
 DATE 9-5-91  
 COMPLETED BY L. L. Fuller  
 TELEPHONE (717) 542-3858

MONTH August 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1034	17	1038
2	1035	18	1037
3	1037	19	1040
4	1037	20	970
5	1046	21	8
6	314	22	0
7	0	23	0
8	0	24	0
9	605	25	0
10	883	26	0
11	1030	27	0
12	1045	28	259
13	1041	29	693
14	1041	30	963
15	1042	31	1037
16	1042		

**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 9-5-91  
 COMPLETED BY L.L. Fuller  
 TELEPHONE (717)542-3858

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: August 1991
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): 1082
7. Maximum Dependable Capacity (Net MWe): 1044

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:  
Summer seasonal rating changed due to establishment of a summer

rating and going to partial arc steam admission.

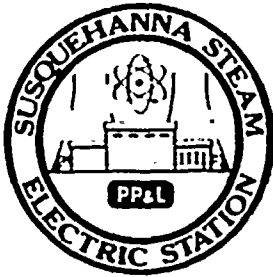
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5831</u>	<u>57,407</u>
12. Number Of Hours Reactor Was Critical	<u>591.6</u>	<u>4,190.1</u>	<u>47,052.9</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>516.3</u>	<u>4,027.9</u>	<u>46,067.7</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,584,392</u>	<u>12,737,985</u>	<u>145,831,449</u>
17. Gross Electrical Energy Generated (MWH)	<u>505,962</u>	<u>4,155,067</u>	<u>47,750,186</u>
18. Net Electrical Energy Generated (MWH)	<u>483,327</u>	<u>3,988,333</u>	<u>45,939,711</u>
19. Unit Service Factor	<u>69.4</u>	<u>69.1</u>	<u>80.3</u>
20. Unit Availability Factor	<u>69.4</u>	<u>69.1</u>	<u>80.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>62.2</u>	<u>65.5</u>	<u>76.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>61.9</u>	<u>65.1</u>	<u>76.2</u>
23. Unit Forced Outage Rate	<u>30.6</u>	<u>5.4</u>	<u>6.2</u>

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

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 1991

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 9-5-91  
 COMPLETED BY L. L. Fuller  
 TELEPHONE (717) 542-3858

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
6	910806	F	62.3	A	3	91-012-00	SB	SHV	Unit Two experienced an automatic scram at 0727 hours August 6. A short circuit in the #2 Stop Valve Control logic caused the #1, #3 and #4 stop valves to go closed initiating an RPS trip. The effected terminal blocks and other components were replaced. For further details see LER #91-012-00. Startup commenced for Unit 2 on August 8. Unit reached 100% power on August 11 @ 0800.

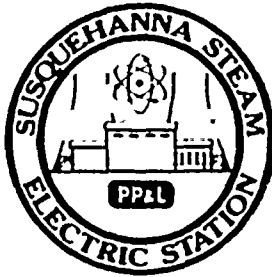
<sup>1</sup>  
 F: Forced  
 S: Scheduled

<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



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH August 1991

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 9-5-91  
 COMPLETED BY L. L. Fuller  
 TELEPHONE (717) 542-3858

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
7	910821	F	165.4	B	1	NA	EL	XFMR	Unit 2 commenced shutdown on August 20 at 2100 and took the generator offline on August 21 at 0333, to replace the 2C main transformer. The transformer was replaced and the unit returned to service on August 28. The unit reached 100% power on August 30 at 1530.

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

<sup>2</sup>  
 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)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
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 4-Continuation  
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<sup>5</sup>  
 Exhibit I - Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388

Date 9-5-91

Completed By L.L. Fuller

Telephone (717)542-3858

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None.

