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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388  
 AUTH. NAME AUTHOR AFFILIATION  
 YOUNG, K.A. Pennsylvania Power & Light Co.  
 BYRAM, R.G. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Mar 1993 for Susquehanna Staem  
 Electric Station Units 1 & 2. W/930415 Ltr.

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 TITLE: Monthly Operating Report (per Tech Specs)

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**Pennsylvania Power & Light Company**

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

Robert G. Byram  
Senior Vice President-Nuclear  
215/774-7502

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

APR 15 1993

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

**SUSQUEHANNA STEAM ELECTRIC STATION**  
**MONTHLY OPERATING REPORTS**  
**PLA-3960** **FILE R41-2A**

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

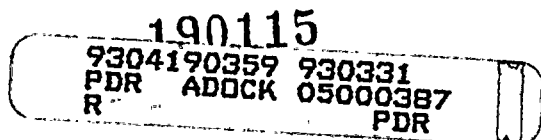
The March 1993 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

  
R. G. Byram

Attachment

cc: NRC Region I  
Mr. G. S. Barber, NRC Resident Inspector  
Mr. R. J. Clark, NRC Sr. Project Manager

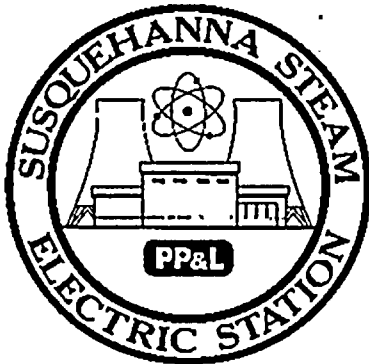


Test 4 1/1

6001 21 57

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# AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387

UNIT: One

DATE: 04-12-93

COMPLETED BY: K.A. Young

TELEPHONE: (717) 542-3251

MONTH March 1993

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

1	<u>1046</u>
2	<u>1044</u>
3	<u>1045</u>
4	<u>1044</u>
5	<u>1045</u>
6	<u>1046</u>
7	<u>1045</u>
8	<u>1044</u>
9	<u>1045</u>
10	<u>1047</u>
11	<u>1046</u>
12	<u>1047</u>
13	<u>1047</u>
14	<u>1048</u>
15	<u>1048</u>
16	<u>1047</u>

DAY AVERAGE DAILY POWER LEVEL  
(MWe-Net)

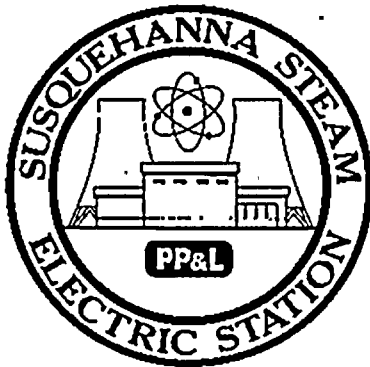
17	<u>1046</u>
18	<u>1049</u>
19	<u>1048</u>
20	<u>1048</u>
21	<u>1045</u>
22	<u>1046</u>
23	<u>1046</u>
24	<u>1046</u>
25	<u>1046</u>
26	<u>1012</u>
27	<u>544</u>
28	<u>735</u>
29	<u>957</u>
30	<u>1043</u>
31	<u>817</u>

## 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: 04-12-93  
 COMPLETED BY: K.A. Young  
 TELEPHONE: (717) 542-3251

Notes

## OPERATING STATUS

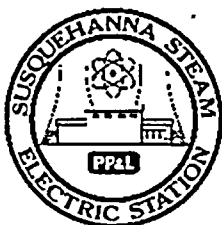
1. Unit Name: Susquehanna Steam Electric Station (Unit 1)
2. Reporting Period: March 1993
3. Licensed Thermal Power (Mwt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1078
7. Maximum Dependable Capacity (Net MWe): 1040
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>2160</u>	<u>86,041</u>
12. Number of Hrs Reactor Was Critical	<u>744</u>	<u>2160</u>	<u>67,833.2</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1032</u>
14. Hours Generator On-Line	<u>744</u>	<u>2160</u>	<u>66,458.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,359,380</u>	<u>6,999,164</u>	<u>208,796,829</u>
17. Gross Electrical Energy Generated (MWH)	<u>776,138</u>	<u>2,308,560</u>	<u>68,254,440</u>
18. Net Electric Energy Generated (MWH)	<u>750,298</u>	<u>2,230,823</u>	<u>65,596,612</u>
19. Unit Service Factor	<u>100</u>	<u>100</u>	<u>77.2</u>
20. Unit Availability Factor	<u>100</u>	<u>100</u>	<u>77.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.0</u>	<u>99.3</u>	<u>73.3</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.0</u>	<u>98.4</u>	<u>72.6</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>7.4</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 March 1993

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 04-12-93  
 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
2	930326	S	0.0	B	5	N/A	XX	ZZZ	Unit One commenced a power reduction at 2200 hours March 26 for scheduled maintenance. Power level was reduced to as low as 36% for control rod sequence exchange and Rx Recirc M/G set brush change outs. Maintenance activities performed during power ascension schedule included: Feedwater flow transmitter replacements, installation of special test flow transmitter under plant bypass program, and I&C tuning of feed water flow control for single element operation. Unit returned to 100% power at 1800 hours March 29.

F: Forced  
 S: Scheduled

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)

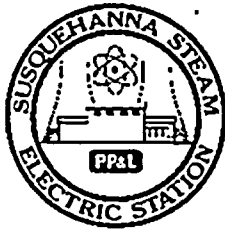
Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continuation  
   from previous month  
 5-Reduction  
 9-Other

Exhibit G-Instructions  
 for preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG  
 0161)

Exhibit I-Same Source







# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1993

DOCKET NO.	<u>50-387</u>
UNIT NAME	<u>One</u>
DATE	<u>04-12-93</u>
COMPLETED BY	<u>K. A. Young</u>
TELEPHONE	<u>(717) 542-3251</u>

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
3	930331	F	0.0	A	5	NA	SJ	LCV	Unit One commenced a power reduction at 0001 hours March 31. Normal level control valve for the 4C feedwater heater failed close causing the "C" Feedwater string to isolate. Reactor power level was reduced to 80%. Repairs were made to LV10408C. Unit returned to 100% power at 1100 hours on April 1.

F: Forced  
S: Scheduled

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)

Method:  
1-Manual  
2-Manual Scram  
3-Automatic Scram  
4-Continuation  
5-Reduction  
9-Other

G-InstructionsExhibit  
for preparation of Data  
Entry Sheets for Licensee  
Event Report (LER) File (NUREG  
0161)  
Exhibit I-Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date: 04-12-93

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

Challenges to Main Steam Safety Relief Valves

None.

Changes to the Offsite Dose Calculation Manual

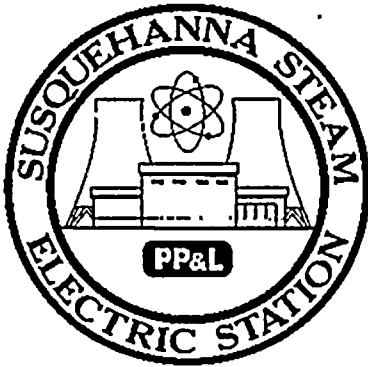
None.

Major Changes to Radioactive Waste Treatment Systems

None.



# AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO.: 50-388

UNIT: Two

DATE: 04-12-93

COMPLETED BY: K.A. Young

TELEPHONE: (717) 542-3251

MONTH March 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1063</u>	17	<u>1061</u>
2	<u>997</u>	18	<u>1063</u>
3	<u>719</u>	19	<u>1037</u>
4	<u>1018</u>	20	<u>1054</u>
5	<u>1064</u>	21	<u>1061</u>
6	<u>1064</u>	22	<u>1063</u>
7	<u>1063</u>	23	<u>1063</u>
8	<u>1063</u>	24	<u>1062</u>
9	<u>1064</u>	25	<u>1063</u>
10	<u>1064</u>	26	<u>1061</u>
11	<u>1063</u>	27	<u>1058</u>
12	<u>1065</u>	28	<u>1053</u>
13	<u>1065</u>	29	<u>1056</u>
14	<u>1064</u>	30	<u>1058</u>
15	<u>1063</u>	31	<u>1057</u>
16	<u>1061</u>		

## INSTRUCTIONS

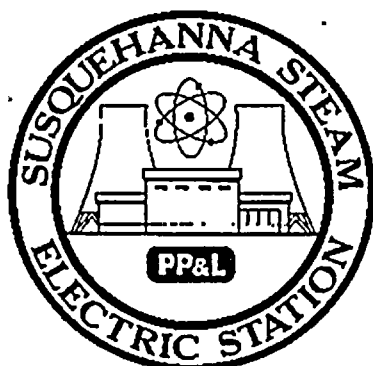
On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

275

100

100

# OPERATING DATA REPORT



DOCKET NO. 50-388  
 DATE: 04-12-93  
 COMPLETED BY: K.A. Young  
 TELEPHONE: (717) 542-3251

Notes

## OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: March 1993
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
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons: N/A

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

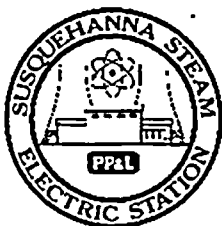
	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>2160</u>	<u>71,280</u>
12. Number of Hrs Reactor Was Critical	<u>744</u>	<u>2,035.9</u>	<u>59,273.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>744</u>	<u>1974.1</u>	<u>58,091.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,412,631</u>	<u>6,356,964</u>	<u>184,349,423</u>
17. Gross Electrical Energy Generated (MWH)	<u>805,084</u>	<u>2,122,245</u>	<u>60,487,979</u>
18. Net Electric Energy Generated (MWH)	<u>778,290</u>	<u>2,046,676</u>	<u>58,213,990</u>
19. Unit Service Factor	<u>100</u>	<u>91.4</u>	<u>81.5</u>
20. Unit Availability Factor	<u>100</u>	<u>91.4</u>	<u>81.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.2</u>	<u>90.8</u>	<u>78.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.6</u>	<u>90.2</u>	<u>77.8</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>8.6</u>	<u>5.5</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 March 1993

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 04-12-93  
 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
3	930302	S	0.0	B	5	NA	SG	TBG	Unit Two commenced a power reduction at 2200 hours March 2 for scheduled maintenance. Power level was reduced to as low as 60% for condenser tube leak investigation in the "D" and "C" water boxes. Tubes were plugged in the "C" water box. Unit returned to 100% power operation at 1400 hours on March 4.

F: Forced  
S: Scheduled

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)

Method:  
 1-Manual  
 2-Manual Scram  
 3-Automatic Scram  
 4-Continuation  
   from previous month  
 5-Reduction  
 9-Other

Exhibit G-Instructions  
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 0161)

Exhibit I-Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date: 04-12-93

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.

