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

SUBJECT: Monthly operating ~~repts~~ for Sept 1993 for Susquehanna Steam Electric Station. W/931012 ltr.      S

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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

OCT 12 1993

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

**SUSQUEHANNA STEAM ELECTRIC STATION  
MONTHLY OPERATING REPORTS  
PLA-4036 FILE R41-2A**

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

The September 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

9310180169 930930  
PDR ADOCK 05000387  
R PDR

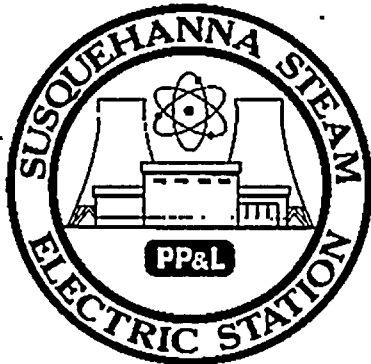
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AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387

UNIT: One

DATE: 10-05-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

MONTH September 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	94
2	248
3	700
4	634
5	954
6	1019
7	1035
8	1038
9	1033
10	1033
11	1026
12	919
13	1024
14	1029
15	1027
16	1043

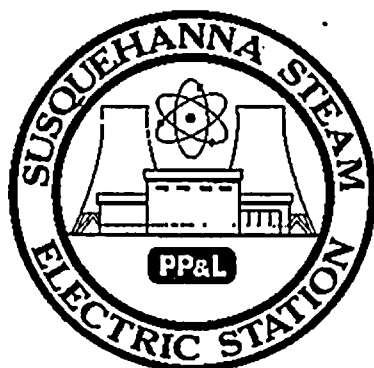
DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
17	1043
18	1039
19	1045
20	1050
21	1044
22	1042
23	1039
24	329
25	0
26	0
27	0
28	0
29	0
30	0
31	

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: 10-05-93  
 COMPLETED BY: K.A. Young  
 TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

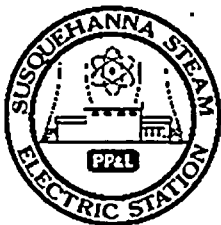
1. Unit Name: Susquehanna Steam Electric Station (Unit 1)
2. Reporting Period: September 1993
3. Licensed Thermal Power (Mwt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1078
7. Maximum Dependable Capacity (Net MWe): 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>720</u>	<u>6,551</u>	<u>90,432</u>
12. Number of Hrs Reactor Was Critical	<u>579.5</u>	<u>5,275.4</u>	<u>70,948.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,032</u>
14. Hours Generator On-Line	<u>578.6</u>	<u>5,206.1</u>	<u>69,505.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,719,912</u>	<u>16,688,853</u>	<u>218,486,518</u>
17. Gross Electrical Energy Generated (MWH)	<u>536,058</u>	<u>5,428,454</u>	<u>71,374,334</u>
18. Net Electric Energy Generated (MWH)	<u>513,692</u>	<u>5,222,281</u>	<u>68,588,070</u>
19. Unit Service Factor	<u>80.4</u>	<u>79.5</u>	<u>76.9</u>
20. Unit Availability Factor	<u>80.4</u>	<u>79.5</u>	<u>76.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>68.6</u>	<u>76.7</u>	<u>72.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>68.0</u>	<u>75.9</u>	<u>72.2</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>18.8</u>	<u>8.5</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each) Refueling outage commenced on 9-25-93, duration 70 days.			

25. If Shut Down At End of Report Period, Estimated Date of Startup: December 4, 1993
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 1993

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 10-05-93  
 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
8	930712	F	0.0	H	4	93-008	TA	TRB	Continuation of ramp back to full power commenced at 2253 hours, August 31. Start up schedule included Turbine valve testing and control rod scram time testing. During power ascension maintenance activities included repairs for feedwater string isolation and offgas hydrogen analyzers out of service. Power level was held at 60% for 24 hours during LCO entered for offgas isolation. Unit reached 100% power at 1510 hours September 5.

F: Forced  
 S: Scheduled

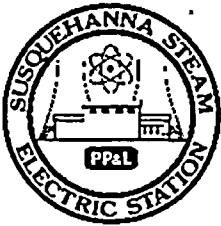
Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

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)

5  
 Exhibit I-Same Source





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1993

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 10-05-93  
 COMPLETED BY K. A. Young  
 TELEPHONE (717) 542-3251

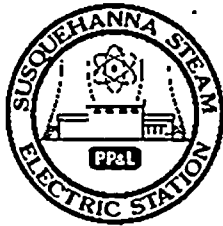
NO.	DATE	TYPE <sup>1</sup>	DURATION (HOURS)	REASON <sup>2</sup>	METHOD OF SHUTTING DOWN REACTOR <sup>3</sup>	LICENSEE EVENT REPORT#	SYSTEM CODE <sup>4</sup>	COMPONENT CODE <sup>5</sup>	CAUSE & CORRECTIVE ACTION TO PREVENT RECURRENCE
9	930924	F	0.0	A	5	NA	BO	PDIS	Power reduction commenced at 0255 hours September 24. Unit One entered Tech. Spec. 3.0.3 due to failure of RHR injection, permissive switch B21-1N021D. Both Division II of CS and RHR LPCI were inoperable. Switch repaired at 0743 hours and T.S. 3.0.3 excited. Decision was made to remain at 26% power level until scheduled shutdown to commence 7th Refuel Outage the next day.

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

G-Instructions Exhibit  
 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 September 1993

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 10-05-93  
 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
10	930925	S	141.4	C	2	NA	XX	ZZZ	Unit One was manually shutdown for its planned 7th Refuel Outage commencing 0045 hours September 25. Generator was taken off line at 0235 hours and Reactor manually scrambled at 0327 hours. Planned outage length is ten weeks. Estimated return to service date is December 4, 1993.

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)  
 5  
 Exhibit I-Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date: 10-05-93

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

Challenges to Main Steam Safety Relief Valves

None.

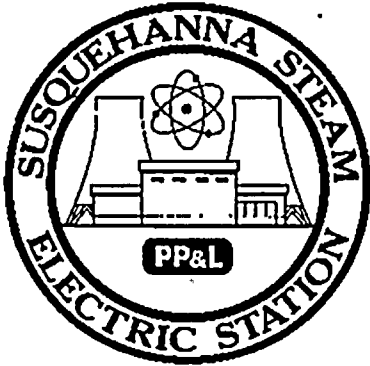
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO.: 50-388

UNIT: Two

DATE: 10-05-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

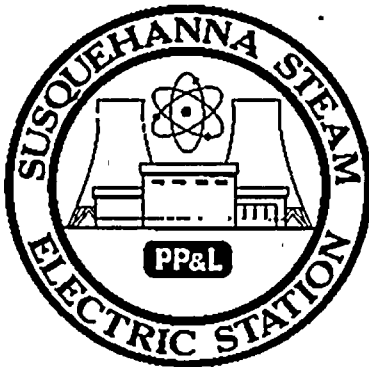
MONTH September 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
1	<u>1025</u>	17	<u>1043</u>
2	<u>1022</u>	18	<u>1039</u>
3	<u>1015</u>	19	<u>1049</u>
4	<u>1029</u>	20	<u>1055</u>
5	<u>1033</u>	21	<u>1049</u>
6	<u>1004</u>	22	<u>1047</u>
7	<u>1041</u>	23	<u>1042</u>
8	<u>878</u>	24	<u>1049</u>
9	<u>994</u>	25	<u>1044</u>
10	<u>1001</u>	26	<u>1038</u>
11	<u>590</u>	27	<u>1045</u>
12	<u>946</u>	28	<u>1051</u>
13	<u>1035</u>	29	<u>1054</u>
14	<u>1027</u>	30	<u>1054</u>
15	<u>1025</u>	31	<u></u>
16	<u>1045</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: 10-05-93  
 COMPLETED BY: K.A. Young  
 TELEPHONE: (717)542-3251

Notes

**OPERATING STATUS**

1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: September 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

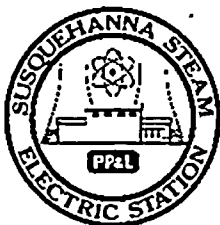
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	720	6,551	75,671
12. Number of Hrs Reactor Was Critical	720	6,426.9	63,664.5
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	720	6,365.1	62,482.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated(MWH)	2,322,019	20,672,604	198,665,063
17. Gross Electrical Energy Generated (MWH)	754,854	6,793,465	65,159,199
18. Net Electric Energy Generated (MWH)	728,932	6,559,633	62,726,947
19. Unit Service Factor	100	97.2	82.6
20. Unit Availability Factor	100	97.2	82.6
21. Unit Capacity Factor (Using MDC Net)	97.0	95.9	79.4
22. Unit Capacity Factor (Using DER Net)	96.4	95.4	79.0
23. Unit Forced Outage Rate	0	2.8	5.2

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 Septemer 1993

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 10-05-93  
 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
6	930910	S	0.0	B	5	NA	XX	ZZZ	Unit Two commenced a power reduction at 2200 hours September 10 for scheduled maintenance. Power level was reduced to as low as 40% for control rod sequence exchange and reactor recirc MG set brush change outs. During power ascension schedule power was held at 60% for 12 hours to clean condenser water boxes. Unit returned to 100% power at 2105 hours September 12.

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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date: 10-05-93

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.