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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 Jan 1993 for Susquehanna Steam Electric Station, Units 1 & 2. W/930212.

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TITLE: Monthly Operating Report (per Tech Specs)

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Pennsylvania Power & Light Company

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

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

FEB 12 1993

U.S. Nuclear Regulatory Commission
Attn.: Document Control Desk
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**SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-3922 FILE R41-2A**

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

The January, 1993 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. R. J. Clark, NRC Sr. Project Manager

9302220405 930131
PDR ADOCK 05000387
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2 011011

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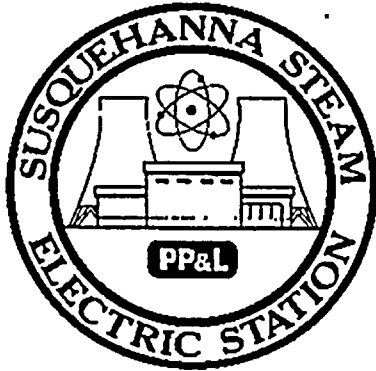
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AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387

UNIT: One

DATE: 02-8-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

MONTH January 1993

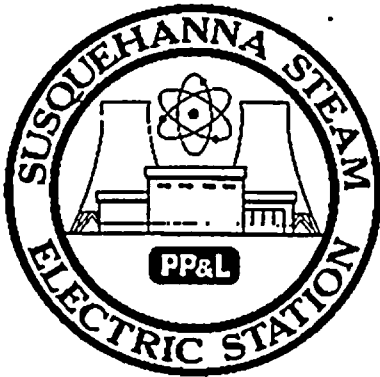
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1048</u>
2	<u>1049</u>
3	<u>1050</u>
4	<u>1046</u>
5	<u>1043</u>
6	<u>1051</u>
7	<u>1051</u>
8	<u>1050</u>
9	<u>1051</u>
10	<u>1050</u>
11	<u>1050</u>
12	<u>1049</u>
13	<u>1049</u>
14	<u>1050</u>
15	<u>1050</u>
16	<u>1048</u>

DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
17	<u>1048</u>
18	<u>1050</u>
19	<u>1049</u>
20	<u>1049</u>
21	<u>1047</u>
22	<u>1046</u>
23	<u>1048</u>
24	<u>1047</u>
25	<u>1050</u>
26	<u>1049</u>
27	<u>1048</u>
28	<u>1048</u>
29	<u>1017</u>
30	<u>936</u>
31	<u>1046</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: 02-08-93
 COMPLETED BY: K.A. Young
 TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

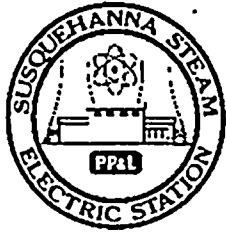
1. Unit Name: Susquehanna Steam Electric Station (Unit 1)
2. Reporting Period: January 1993
3. Licensed Thermal Power(MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1078
7. Maximum Dependable Capacity (Net MWe): 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>744</u>	<u>84,625</u>
12. Number of Hrs Reactor Was Critical	<u>744</u>	<u>744</u>	<u>66,417.2</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1032</u>
14. Hours Generator On-Line	<u>744</u>	<u>744</u>	<u>65,043.0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>2,432,530</u>	<u>2,432,530</u>	<u>204,230,195</u>
17. Gross Electrical Energy Generated (MWH)	<u>803,624</u>	<u>803,624</u>	<u>66,749,504</u>
18. Net Electric Energy Generated (MWH)	<u>776,750</u>	<u>776,750</u>	<u>64,142,539</u>
19. Unit Service Factor	<u>100</u>	<u>100</u>	<u>76.9</u>
20. Unit Availability Factor	<u>100</u>	<u>100</u>	<u>76.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.4</u>	<u>100.4</u>	<u>72.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.4</u>	<u>99.4</u>	<u>72.2</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>7.5</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 January 1993

DOCKET NO. 50-387
 UNIT NAME One
 DATE 02-08-93
 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
1	930129	S	0.0	B	5	NA	XX	ZZZ	Unit One commenced a power reduction at 2000 hours on January 29 for scheduled maintenance. Power level was lowered to 71% for control rod pattern adjustments. Scheduled activities were completed and the unit returned to 100% power at 2100 hours January 30.

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 50-387 Date: 02-8-93

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

Challenges to Main Steam Safety Relief Valves

None.

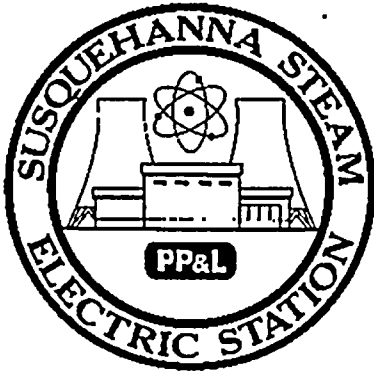
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO.: 50-388

UNIT: Two

DATE: 02-8-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

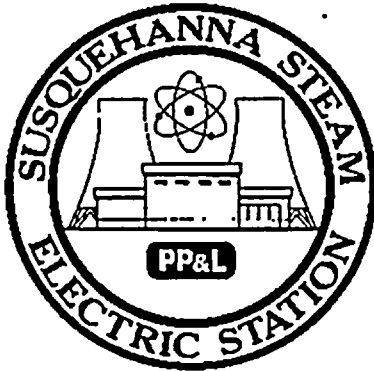
MONTH January 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
1	<u>1064</u>	17	<u>1030</u>
2	<u>1064</u>	18	<u>1063</u>
3	<u>1062</u>	19	<u>1064</u>
4	<u>1059</u>	20	<u>1012</u>
5	<u>1057</u>	21	<u>1061</u>
6	<u>1062</u>	22	<u>1058</u>
7	<u>1062</u>	23	<u>1062</u>
8	<u>1064</u>	24	<u>1061</u>
9	<u>1063</u>	25	<u>1064</u>
10	<u>1062</u>	26	<u>1065</u>
11	<u>1062</u>	27	<u>1064</u>
12	<u>1061</u>	28	<u>1064</u>
13	<u>1062</u>	29	<u>903</u>
14	<u>1064</u>	30	<u>104</u>
15	<u>1061</u>	31	<u>0</u>
16	<u>745</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: 02-08-93
 COMPLETED BY: K.A. Young
 TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

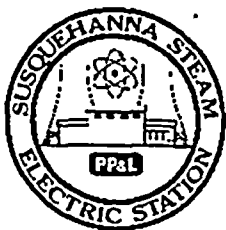
1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: January 1993
3. Licensed Thermal Power(MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1082
7. Maximum Dependable Capacity (Net MWe): 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>744</u>	<u>69,864</u>
12. Number of Hrs Reactor Was Critical	<u>744</u>	<u>744</u>	<u>57,981.6</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>704.0</u>	<u>704.0</u>	<u>56,821.3</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>2,258,305</u>	<u>2,258,305</u>	<u>180,250,764</u>
17. Gross Electrical Energy Generated (MWH)	<u>754,916</u>	<u>754,916</u>	<u>59,120,650</u>
18. Net Electric Energy Generated (MWH)	<u>727,786</u>	<u>727,786</u>	<u>56,895,100</u>
19. Unit Service Factor	<u>94.6</u>	<u>94.6</u>	<u>81.3</u>
20. Unit Availability Factor	<u>94.6</u>	<u>94.6</u>	<u>81.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>93.7</u>	<u>93.7</u>	<u>78.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>93.2</u>	<u>93.2</u>	<u>77.6</u>
23. Unit Forced Outage Rate	<u>5.4</u>	<u>5.4</u>	<u>5.4</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 January 1993

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 02-08-93
 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
1	930115	S	0.0	B	5	NA	XX	ZZZ	Unit Two commenced a power reduction at 2200 hours January 15 for scheduled maintenance. Power level was reduced to as low as 38% for control rod sequence exchange. Scheduled activities were completed and the unit returned to 100% power at 1100 hours January 17.

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)

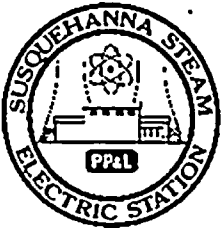
3
 Method:
 1-Manual
 2-Manual Scram
 3-Automatic Scram
 4-Continuation
 from previous month
 5-Reduction
 9-Other

4
 Exhibit G-Instructions for preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)
 Exhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January 1993

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 02-08-93
 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
2	930129	F	40.0	A	1	NA	TL	EXC	Unit Two commenced a power reduction at 1400 hours January 29 for a forced outage to investigate and repair condenser tube leaks. Condenser demineralizer influent (CDI) conductivity exceeded administrative limits. Reactor power was held at 60% for repairs in the "D" waterbox. At 1600 hours a generator exciter field ground alarm was received. Initial trouble shooting failed to clear this alarm and a Reactor power reduction to take the main generator/turbine off line was started at 0200 hours January 30. Main Turbine/generator was manually tripped at 0758 hours. Reactor power level was held at hot shutdown condition until 1430 hours January 31.

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
 G-Instructions Exhibit
 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: 02-8-93

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.