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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHOR AFFILIATION
 BALL, B. Pennsylvania Power & Light Co.
 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Nov 1993 for Susquehanna Steam Electric Station. W/931214 Ltr.

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Pennsylvania Power & Light Company

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

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

DEC 14 1993

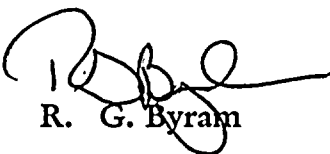
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SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-4060 **FILE R41-2A**

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

The November 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

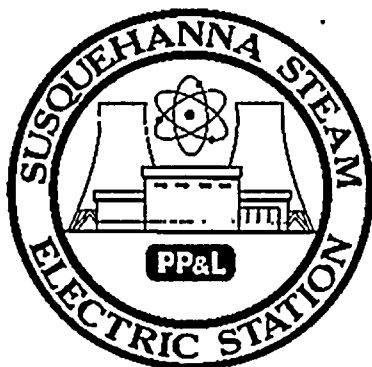
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AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387

UNIT: One

DATE: 12-08-93

COMPLETED BY: B. Ball

TELEPHONE: (717)542-3453

MONTH November 1993

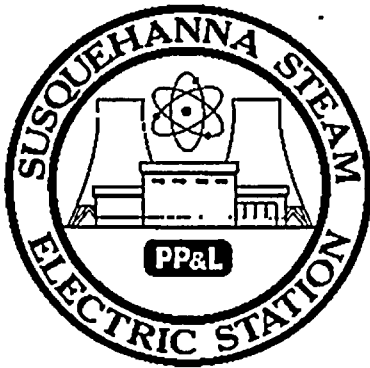
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</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: 12-08-93
 COMPLETED BY: B. Ball
 TELEPHONE: (717)542-3453

Notes

OPERATING STATUS

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

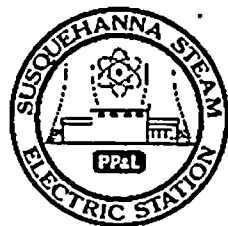
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>8,016</u>	<u>91,897</u>
12. Number of Hrs Reactor Was Critical	<u>0</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>0</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>0</u>	<u>16,688,853</u>	<u>218,486,518</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>5,428,454</u>	<u>71,374,334</u>
18. Net Electric Energy Generated (MWH)	<u>-8770</u>	<u>5,208,615</u>	<u>68,574,404</u>
19. Unit Service Factor	<u>0</u>	<u>65.0</u>	<u>75.6</u>
20. Unit Availability Factor	<u>0</u>	<u>65.0</u>	<u>75.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0</u>	<u>62.5</u>	<u>71.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>0</u>	<u>61.9</u>	<u>71.1</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: January 5, 1994
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 November 1993

DOCKET NO. 50-387
 UNIT NAME One
 DATE 12-08-93
 COMPLETED BY B. Ball
 TELEPHONE (717)542-3453

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
10	930925	S	720.0	C	4	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 scrammed at 0327 hours. Estimated return to service date is January 5, 1994. Extension of outage past budgeted completion date of 12/03/93 is due to replacement of the Jet Pump Beams, per GE recommendation.

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)
 s
 Exhibit I-Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date: 12-08-93

Completed by B. Ball Telephone: (717) 542-3453

Challenges to Main Steam Safety Relief Valves

None.

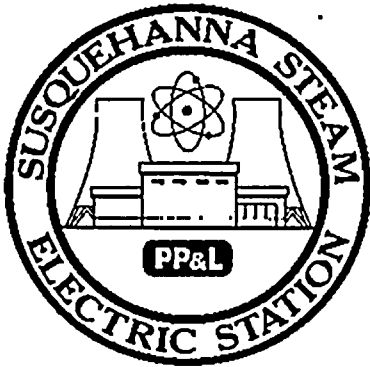
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO.: 50-388

UNIT: Two

DATE: 12-08-93

COMPLETED BY: B. Ball

TELEPHONE: (717)542-3453

MONTH November 1993

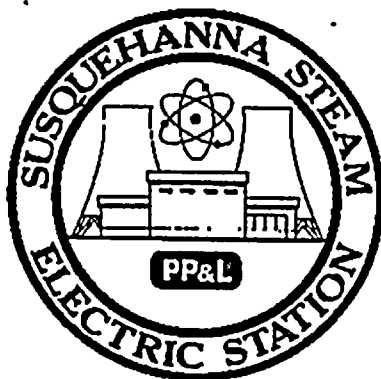
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1057</u>
2	<u>1056</u>
3	<u>1054</u>
4	<u>1053</u>
5	<u>1017</u>
6	<u>1041</u>
7	<u>1056</u>
8	<u>1058</u>
9	<u>1057</u>
10	<u>1057</u>
11	<u>1058</u>
12	<u>1051</u>
13	<u>1050</u>
14	<u>1039</u>
15	<u>1035</u>
16	<u>1050</u>

DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
17	<u>1047</u>
18	<u>1052</u>
19	<u>1050</u>
20	<u>760</u>
21	<u>1048</u>
22	<u>1054</u>
23	<u>1052</u>
24	<u>1052</u>
25	<u>1057</u>
26	<u>1055</u>
27	<u>1048</u>
28	<u>1045</u>
29	<u>1057</u>
30	<u>1057</u>
31	<u> </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: 12-08-93
 COMPLETED BY: B. Ball
 TELEPHONE: (717)542-3453

Notes

OPERATING STATUS

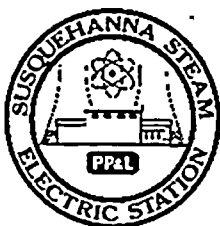
1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: November 1993
3. Licensed Thermal Power(MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1082
7. Maximum Dependable Capacity (Net MWe): 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>720</u>	<u>8,016</u>	<u>77,136</u>
12. Number of Hrs Reactor Was Critical	<u>720</u>	<u>7,891.9</u>	<u>65,129.5</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>720</u>	<u>7,830.1</u>	<u>63,947.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>2,356,322</u>	<u>25,516,308*</u>	<u>203,508,767*</u>
17. Gross Electrical Energy Generated (MWH)	<u>776,230</u>	<u>8,380,003</u>	<u>66,745,737</u>
18. Net Electric Energy Generated (MWH)	<u>749,387</u>	<u>8,091,724</u>	<u>64,259,038</u>
19. Unit Service Factor	<u>100</u>	<u>97.7</u>	<u>82.9</u>
20. Unit Availability Factor	<u>100</u>	<u>97.7</u>	<u>82.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.7</u>	<u>96.7</u>	<u>79.8</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.1</u>	<u>96.1</u>	<u>79.3</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>2.3</u>	<u>5.1</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each)
Turbine Instrumentation outage scheduled for 2/26/94, duration 8 days. Refueling outage scheduled to commence on 3/12/94 with an estimated duration of 70 days.
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	_____	_____	* Reported values based on revised core weight calculations
INITIAL ELECTRICITY	_____	_____	
COMMERCIAL OPERATION	_____	_____	



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November 1993

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 12-08-93
 COMPLETED BY B. Ball
 TELEPHONE (717) 542-3453

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
7	931105	S	0.0	B	5	N/A	XX	ZZZ	Unit 2 commenced a power reduction to as low as 75% at 2100 hours on November 5 for a control rod sequence exchange. Power was returned to 100% at 0600 hours on November 6.
8	931120	S	0.0	B	5	N/A	AD	MG	Unit 2 commenced a power reduction to as low as 40% at 0002 hours on November 20 for Recirc Mg Set Brush changeout and scram time testing. Power was returned to 100% at 0600 hours on November 21.

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 50-388 Date: 12-08-93

Completed by B. Ball Telephone: (717) 542-3453

Challenges to Main Steam Safety Relief Valves

None.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.