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ACCESSION NBR: 9402230304 DOC. DATE: ~~94/01/31~~ NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 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 Jan 1994 for Susquehanna SES
 Units 1 & 2. 940215 ltr.

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 TITLE: Monthly Operating Report (per Tech Specs)

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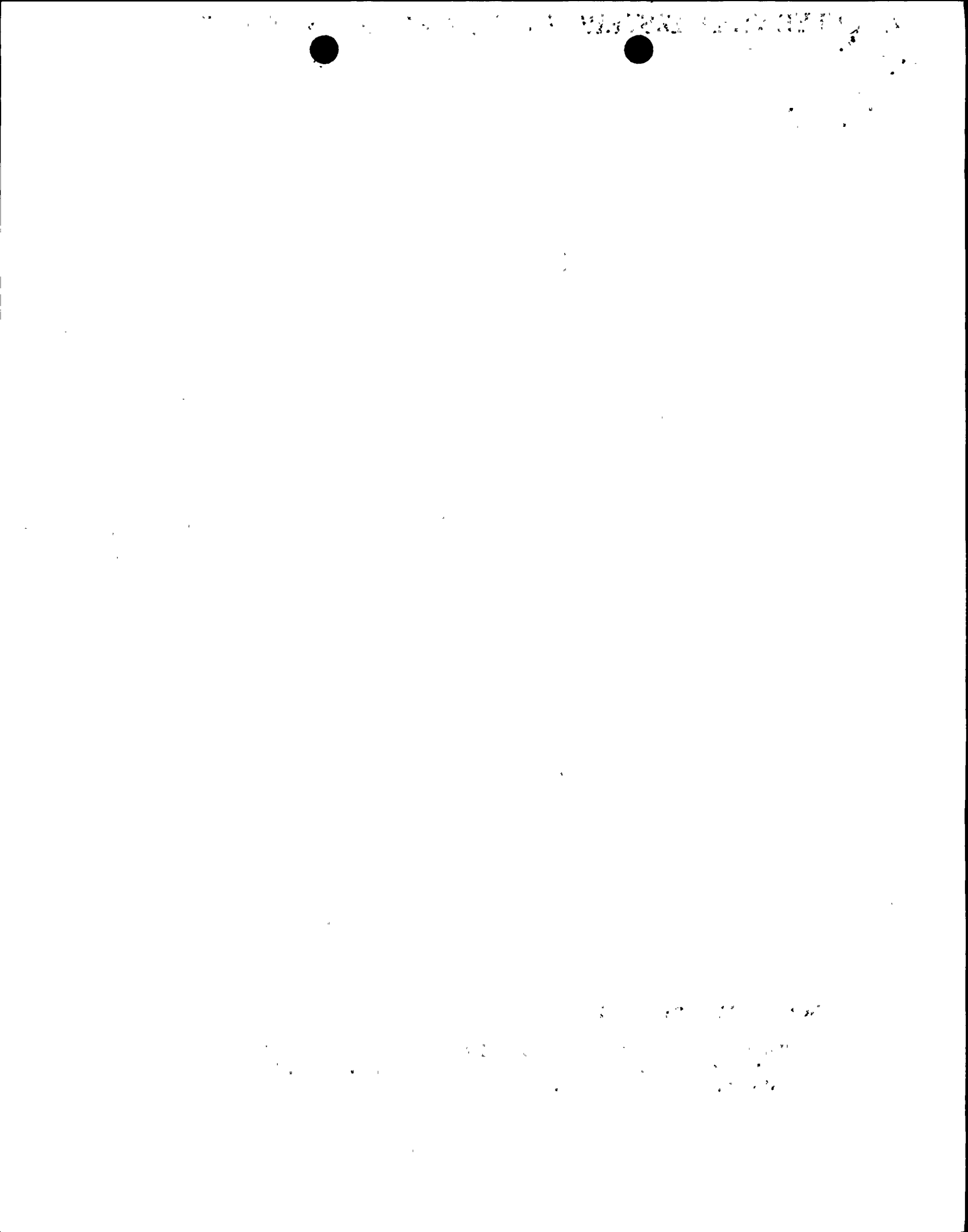
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Pennsylvania Power & Light Company

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

February 15, 1994

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

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-4097 FILE R41-2A

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

The January 1994 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,


R. G. Byram

Attachment

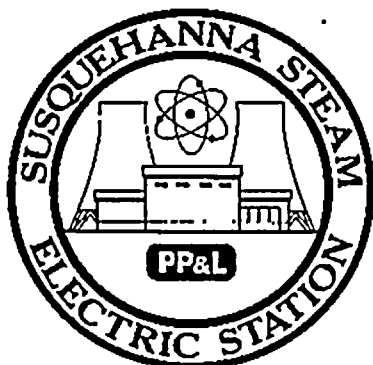
cc: NRC Region I
Mr. G. S. Barber, NRC Resident Inspector
Mr. R. J. Clark, NRC Sr. Project Manager

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1/1

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387

UNIT: One

DATE: 02-08-94

COMPLETED BY: B. Ball

TELEPHONE: (717)542-3453

MONTH January 1994

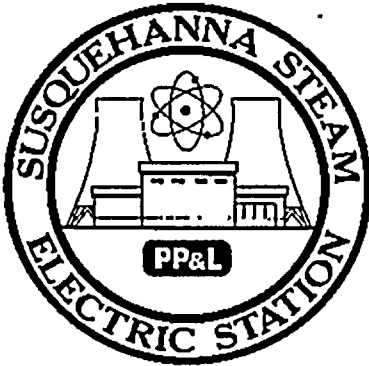
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
17	0
18	0
19	0
20	0
21	0
22	69
23	305
24	414
25	740
26	776
27	807
28	829
29	834
30	763
31	954

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: 02-08-94
 COMPLETED BY: B. Ball
 TELEPHONE: (717)542-3453

Notes

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (Unit 1)
2. Reporting Period: January 1994
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

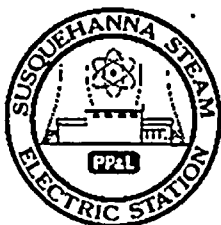
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>744</u>	<u>93,385</u>
12. Number of Hrs Reactor Was Critical	<u>276.4</u>	<u>276.4</u>	<u>71,224.9</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,032</u>
14. Hours Generator On-Line	<u>233.5</u>	<u>233.5</u>	<u>69,738.6</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>582,578</u>	<u>582,578</u>	<u>219,069,096</u>
17. Gross Electrical Energy Generated (MWH)	<u>163,692</u>	<u>163,692</u>	<u>71,538,026</u>
18. Net Electric Energy Generated (MWH)	<u>144,210</u>	<u>144,210</u>	<u>68,706,718</u>
19. Unit Service Factor	<u>31.4</u>	<u>31.4</u>	<u>74.5</u>
20. Unit Availability Factor	<u>31.4</u>	<u>31.4</u>	<u>74.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>18.6</u>	<u>18.6</u>	<u>70.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>18.6</u>	<u>18.6</u>	<u>70.1</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>8.5</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each) <u>None.</u>			

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 1994

DOCKET NO. 50-387
 UNIT NAME One
 DATE 02-08-94
 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	510.4	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. The seventh fuel cycle ended at 0623 hours January 22 when the main generator was synchronized to the PJM grid. Outage length was 119 days 3 hours 48 minutes. The unit reached 100% power at 2120 hours January 31.

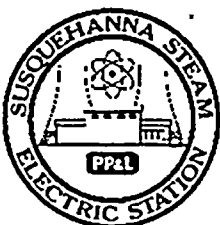
F: Forced
 S: Scheduled

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

UNIT SHUTDOWNS AND POWER REDUCTIONS



REPORT MONTH January 1994

DOCKET NO. 50-387
 UNIT NAME One
 DATE 02-08-94
 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
1	940122	S	.08	B	9	NA	TA	ZZZ	Unit One took the generator off line at 1310 hours January 22 to perform a scheduled turbine overspeed trip test. The generator was re-synchronized at 1315 hours January 22.

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: 02-08-94

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

Challenges to Main Steam Safety Relief Valves

None.

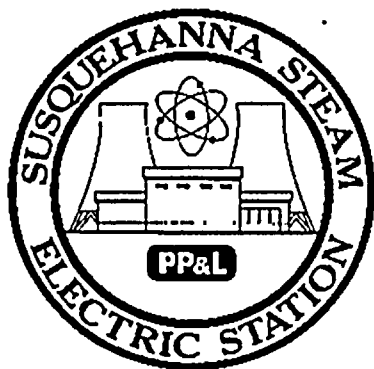
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO.: 50-388

UNIT: Two

DATE: 02-08-94

COMPLETED BY: B. Ball

TELEPHONE: (717)542-3453

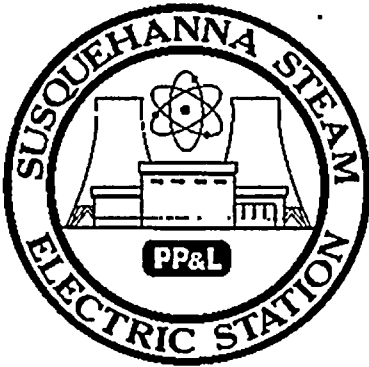
MONTH January 1994

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>835</u>	17	<u>1059</u>
2	<u>907</u>	18	<u>1061</u>
3	<u>1057</u>	19	<u>1062</u>
4	<u>1005</u>	20	<u>57</u>
5	<u>708</u>	21	<u>0</u>
6	<u>1006</u>	22	<u>259</u>
7	<u>1056</u>	23	<u>770</u>
8	<u>1058</u>	24	<u>948</u>
9	<u>1058</u>	25	<u>1057</u>
10	<u>1060</u>	26	<u>1060</u>
11	<u>1057</u>	27	<u>1060</u>
12	<u>1055</u>	28	<u>1052</u>
13	<u>1054</u>	29	<u>1053</u>
14	<u>1053</u>	30	<u>1058</u>
15	<u>1061</u>	31	<u>1060</u>
16	<u>1060</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: 02-08-94
 COMPLETED BY: B. Ball
 TELEPHONE: (717)542-3453

Notes

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: January 1994
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

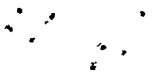
	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>744</u>	<u>78,624</u>
12. Number of Hrs Reactor Was Critical	<u>710.3</u>	<u>710.3</u>	<u>66,223.4</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>695.5</u>	<u>695.5</u>	<u>64,907.2</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>2,159,917</u>	<u>2,159,917</u>	<u>206,487,547</u>
17. Gross Electrical Energy Generated (MWH)	<u>714,918</u>	<u>714,918</u>	<u>67,724,685</u>
18. Net Electric Energy Generated (MWH)	<u>688,325</u>	<u>688,325</u>	<u>65,193,501</u>
19. Unit Service Factor	<u>93.5</u>	<u>93.5</u>	<u>82.6</u>
20. Unit Availability Factor	<u>93.5</u>	<u>93.5</u>	<u>82.6</u>
21. Unit Capacity Factor (Using MDC Net)	<u>88.6</u>	<u>88.6</u>	<u>79.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>88.1</u>	<u>88.1</u>	<u>79.0</u>
23. Unit Forced Outage Rate	<u>6.5</u>	<u>6.5</u>	<u>5.7</u>

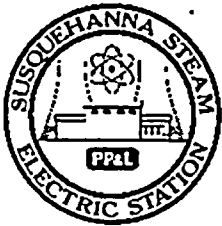
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each)
Refueling outage scheduled to commence on 3/12/94 with an estimated duration of 70 days.

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	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January 1994

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 02-08-94
 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
1	940104	F	37.8	A	5	N/A	XX	ZZZ	Unit 2 commenced a power reduction to 60% power at 2030 hours on January 4 for a Condenser tube leak investigation. Unit reached 100% power at 1015 hours January 6.
2	940120	F	48.5	A	3	94-002-00	TJ	TCV	Unit 2 experienced an automatic main turbine trip with automatic reactor scram at 0150 hours January 20. The turbine trip was a result of a Stator Cooling Water Temperature Control Valve problem which caused high stator cooling water temperatures.

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 50-388 Date: 02-08-94

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

Challenges to Main Steam Safety Relief Valves

Challenges to Main Steam Safety Relief Valves occurred during auto scram on January 20, 1994. Eight SRV's automatically actuated and peak Reactor pressure was 1083 psig. Data for SRV actuation follows:

<u>Valve Number</u>	<u>Length of Time Open</u>	<u>Reactor Pressure Open</u>	<u>Reactor Pressure Closed</u>
2F013A	5 sec.	1070 psig	978 psig
2F013B	6 sec.	1058 psig	978 psig
2F013C	5 sec.	1070 psig	978 psig
2F013D	2 sec.	1077 psig	1008 psig
2F013E	5 sec.	1070 psig	978 psig
2F013H	4 sec.	1078 psig	978 psig
2F013R	4 sec.	1083 psig	978 psig
2F013S	2 sec.	1076 psig	978 psig

(Data from SPDS)

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.