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 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
 YOUNG, K.A. Pennsylvania Power & Light Co.
 BYRAM, R.G. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Jul 1993 for Susquehanna Steam Electric Station. W/930816 ltr.

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 TITLE: Monthly Operating Report (per Tech Specs)

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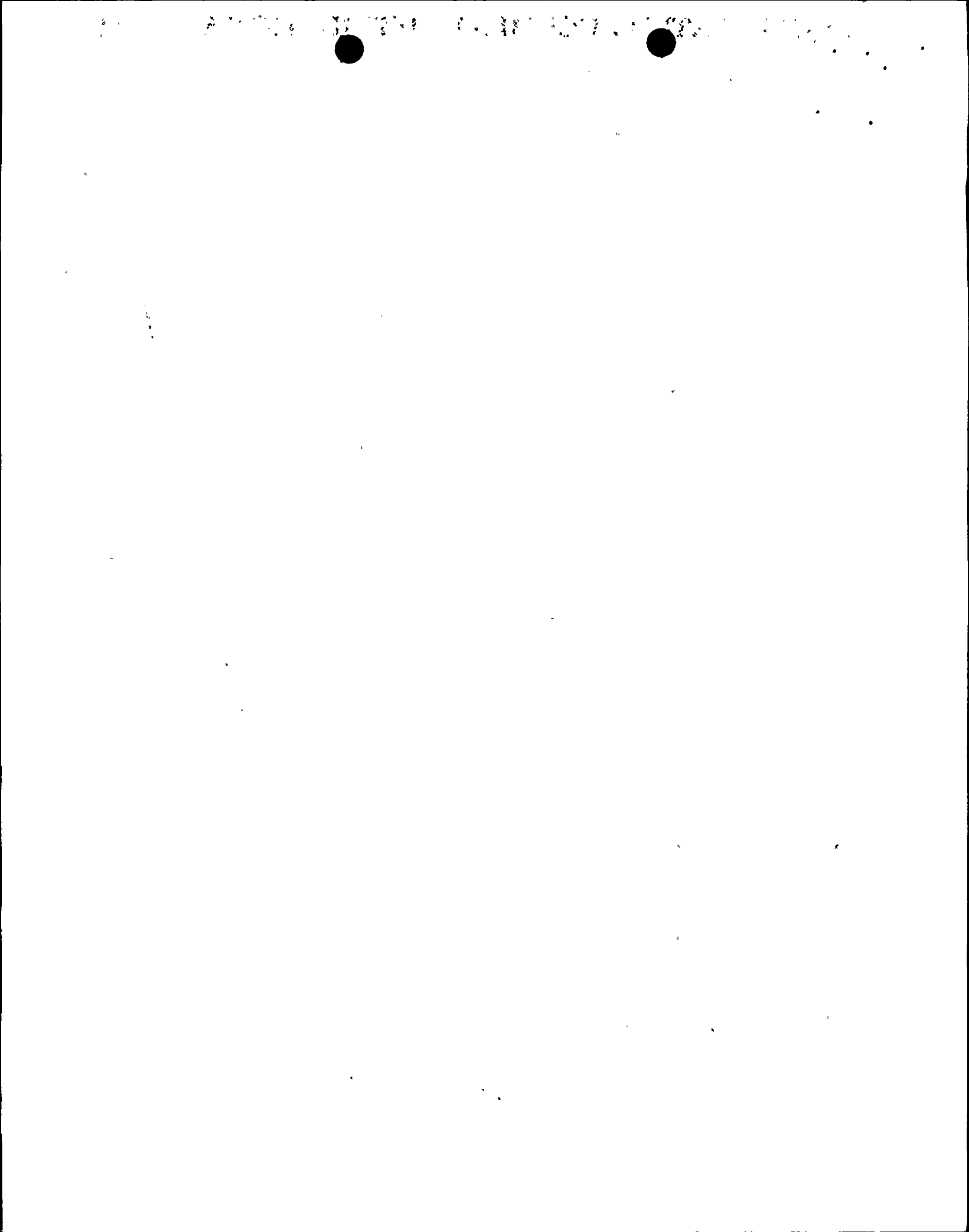
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Pennsylvania Power & Light Company

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

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

AUG 16 1993

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

**SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS**
PLA-4013 FILE R41-2A

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

The July 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

TE 24
||

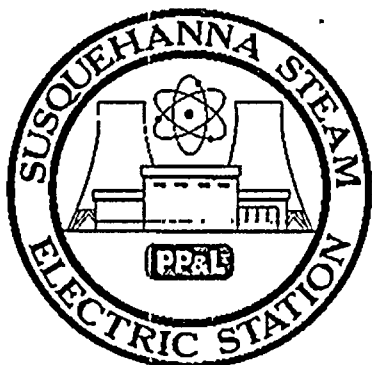
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101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387

UNIT: One

DATE: 08-9-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

MONTH July 1993

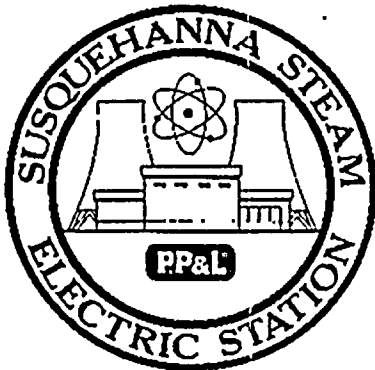
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1022</u>
2	<u>1028</u>
3	<u>1008</u>
4	<u>1006</u>
5	<u>1038</u>
6	<u>1010</u>
7	<u>991</u>
8	<u>992</u>
9	<u>999</u>
10	<u>998</u>
11	<u>1010</u>
12	<u>694</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>0</u>

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: 8-9-93
 COMPLETED BY: K.A. Young
 TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (Unit 1)
2. Reporting Period: July 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>5087</u>	<u>88,968</u>
12. Number of Hrs Reactor Was Critical	<u>280.6</u>	<u>4623.6</u>	<u>70,296.7</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1032</u>
14. Hours Generator On-Line	<u>280.6</u>	<u>4623.6</u>	<u>68,922.5</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>916,082</u>	<u>14,939,174</u>	<u>216,736,839</u>
17. Gross Electrical Energy Generated (MWH)	<u>293,224</u>	<u>4,892,020</u>	<u>70,837,900</u>
18. Net Electric Energy Generated (MWH)	<u>276,215</u>	<u>4,718,710</u>	<u>68,084,499</u>
19. Unit Service Factor	<u>37.7</u>	<u>90.9</u>	<u>77.5</u>
20. Unit Availability Factor	<u>37.7</u>	<u>90.9</u>	<u>77.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>35.7</u>	<u>89.2</u>	<u>73.6</u>
22. Unit Capacity Factor (Using DER Net)	<u>35.4</u>	<u>88.3</u>	<u>72.9</u>
23. Unit Forced Outage Rate	<u>62.3</u>	<u>9.1</u>	<u>7.7</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each) Refueling outage scheduled for 9-25-93, duration 70 days.			

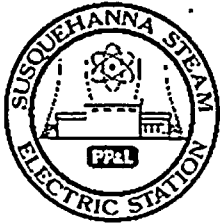
25. If Shut Down At End of Report Period, Estimated Date of Startup: _____
26. Units In Test Status (Prior to Commercial Operation):

	FORECAST	ACHIEVED
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1993

DOCKET NO. 50-387
 UNIT NAME One
 DATE 08-09-93
 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
8	930712	F	463.4	A	3	93-008	TA	TRB	Unit One experienced an automatic main turbine trip with automatic reactor scram at 1635 hours July 12. Main turbine tripped on high vibration caused by failure of two turbine buckets on the C Low pressure rotor. Forced outage entered to evaluate extent of damage and make repairs. Unit is scheduled for startup during the last week of August 93.

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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date: 08-9-93

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

Challenges to Main Steam Safety Relief Valves

In response to an auto scram from 100% powr on July 12, 1993, two SRV's automatically actuated.

<u>SRV</u>	<u>OPEN</u>	<u>LENGTH</u>	<u>PRESSURE (PSIG)</u>
D	16:36:05	3 sec	1086
E	16:36:03	9 sec	1076

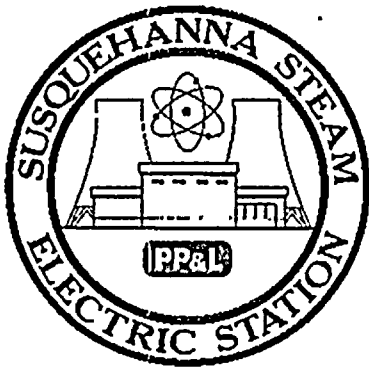
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.

AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO.: 50-388

UNIT: Two

DATE: 08-9-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

MONTH July 1993

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

DAY AVERAGE DAILY POWER LEVEL
(Mwe-Net)

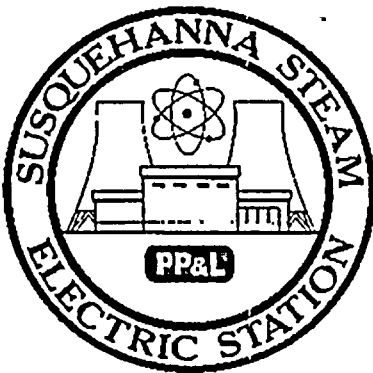
1	<u>1031</u>
2	<u>1037</u>
3	<u>1028</u>
4	<u>1020</u>
5	<u>1015</u>
6	<u>1012</u>
7	<u>1006</u>
8	<u>1001</u>
9	<u>1004</u>
10	<u>725</u>
11	<u>1003</u>
12	<u>1020</u>
13	<u>1023</u>
14	<u>1021</u>
15	<u>1025</u>
16	<u>1033</u>

17	<u>1036</u>
18	<u>1034</u>
19	<u>1029</u>
20	<u>1025</u>
21	<u>1034</u>
22	<u>1037</u>
23	<u>1035</u>
24	<u>1026</u>
25	<u>1029</u>
26	<u>1030</u>
27	<u>1026</u>
28	<u>1025</u>
29	<u>1025</u>
30	<u>1032</u>
31	<u>1028</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: 08-9-93
 COMPLETED BY: K.A. Young
 TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

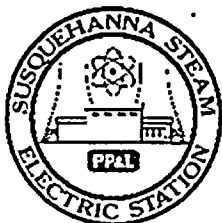
1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: July 1993
3. Licensed Thermal Power(MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1050
6. Maximum Dependable Capacity (Gross MWe): 1082
7. Maximum Dependable Capacity (Net MWe): 1044
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>5087</u>	<u>74,207</u>
12. Number of Hrs Reactor Was Critical	<u>744</u>	<u>4962.9</u>	<u>62,200.5</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>4901.1</u>	<u>61,018.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated(MWH)	<u>2,426,777</u>	<u>15,900,609</u>	<u>193,893,068</u>
17. Gross Electrical Energy Generated (MWH)	<u>782,626</u>	<u>5,247,027</u>	<u>63,612,761</u>
18. Net Electric Energy Generated (MWH)	<u>754,902</u>	<u>5,067,607</u>	<u>61,234,921</u>
19. Unit Service Factor	<u>100</u>	<u>96.4</u>	<u>82.2</u>
20. Unit Availability Factor	<u>100</u>	<u>96.4</u>	<u>82.3</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.2</u>	<u>95.4</u>	<u>79.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.6</u>	<u>94.9</u>	<u>78.6</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>3.7</u>	<u>5.3</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	<u>75</u>	<u> </u>
INITIAL ELECTRICITY	<u> </u>	<u> </u>
COMMERCIAL OPERATION	<u> </u>	<u> </u>



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1993

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 08-9-93
 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
5	930710	S	0.0	B	5	NA	XX	ZZZ	Unit Two commenced a power reduction at 0001 hours June 10 for scheduled maintenance. Power level was reduced as low as 57% for control rod sequence exchange. Maintenance activities included inspecting the A main condenser water boxes for evidence of tube fouling. Unit returned to 100% power at 0900 hours June 11.

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: 8-9-93

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.