



Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

Harold W. Keiser
Senior Vice President-Nuclear
215/770-4194

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

AUG 15 1989

Mr. William G. McDonald
Director, Office of Administration
and Resources Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-3243 FILE R41-2A

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

Dear Mr. McDonald:

The July 1989 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

H. W. Keiser

Attachment

cc: Document Control Desk (Original)
NRC-Region I
Mr. G. S. Barber - NRC Resident Inspector
Mr. M. C. Thadani - NRC Project Manager

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PDR ADOCK 05000387
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ASSEMBLY

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STATE OF TEXAS

COMMISSIONERS OF THE GENERAL LAND OFFICE

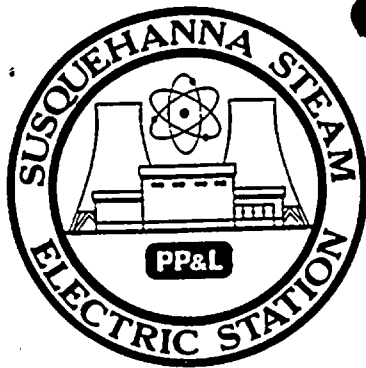
WHEREAS certain lands are being offered for sale

at public auction

and

it is the policy of the State of Texas

to sell such lands to the highest bidder



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
 UNIT One
 DATE 8-4-89
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

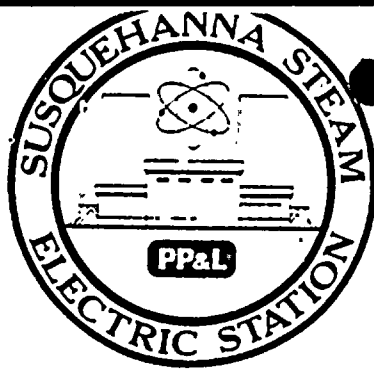
MONTH July 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1040
2	1034
3	1034
4	1035
5	984
6	1035
7	800
8	1024
9	1034
10	1023
11	1031
12	1040
13	1041
14	1038
15	1042
16	1039

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	1038
18	1038
19	1035
20	1034
21	1036
22	1030
23	1027
24	1029
25	1029
26	1030
27	1030
28	1035
29	1044
30	1041
31	1044

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 8-4-89
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: July 1989
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): 1068.5
7. Maximum Dependable Capacity (Net MWe): 1032
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:
No changes were made.

Notes

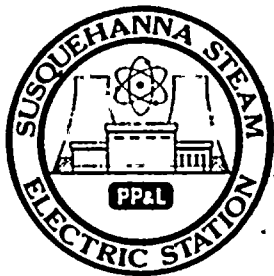
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,087</u>	<u>53,904</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>3,004.5</u>	<u>39,946.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,032</u>
14. Hours Generator On-Line	<u>744</u>	<u>2,889.7</u>	<u>39,043.0</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,428,981</u>	<u>9,040,021</u>	<u>121,643,532</u>
17. Gross Electrical Energy Generated (MWH)	<u>790,068</u>	<u>2,953,164</u>	<u>39,677,024</u>
18. Net Electrical Energy Generated (MWH)	<u>762,967</u>	<u>2,819,795</u>	<u>38,065,276</u>
19. Unit Service Factor	<u>100.0</u>	<u>56.8</u>	<u>72.4</u>
20. Unit Availability Factor	<u>100.0</u>	<u>56.8</u>	<u>72.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.4</u>	<u>53.7</u>	<u>68.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>97.7</u>	<u>52.8</u>	<u>67.3</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>14.0</u>	<u>10.0</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
None scheduled.

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 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 8-4-89
 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
10	890707	F	0.0	A	5	N/A	SG	TBG	At 1000 hours July 7, Unit One commenced a power reduction to 60% level for condenser tube leak investigation and repairs. Repairs were made to tubes in the intermediate pressure condenser "D" waterbox. Unit returned to 100% power level at 1100 hours July 8th.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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 8-4-89

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

Challenges to Main Steam Safety Relief Valves

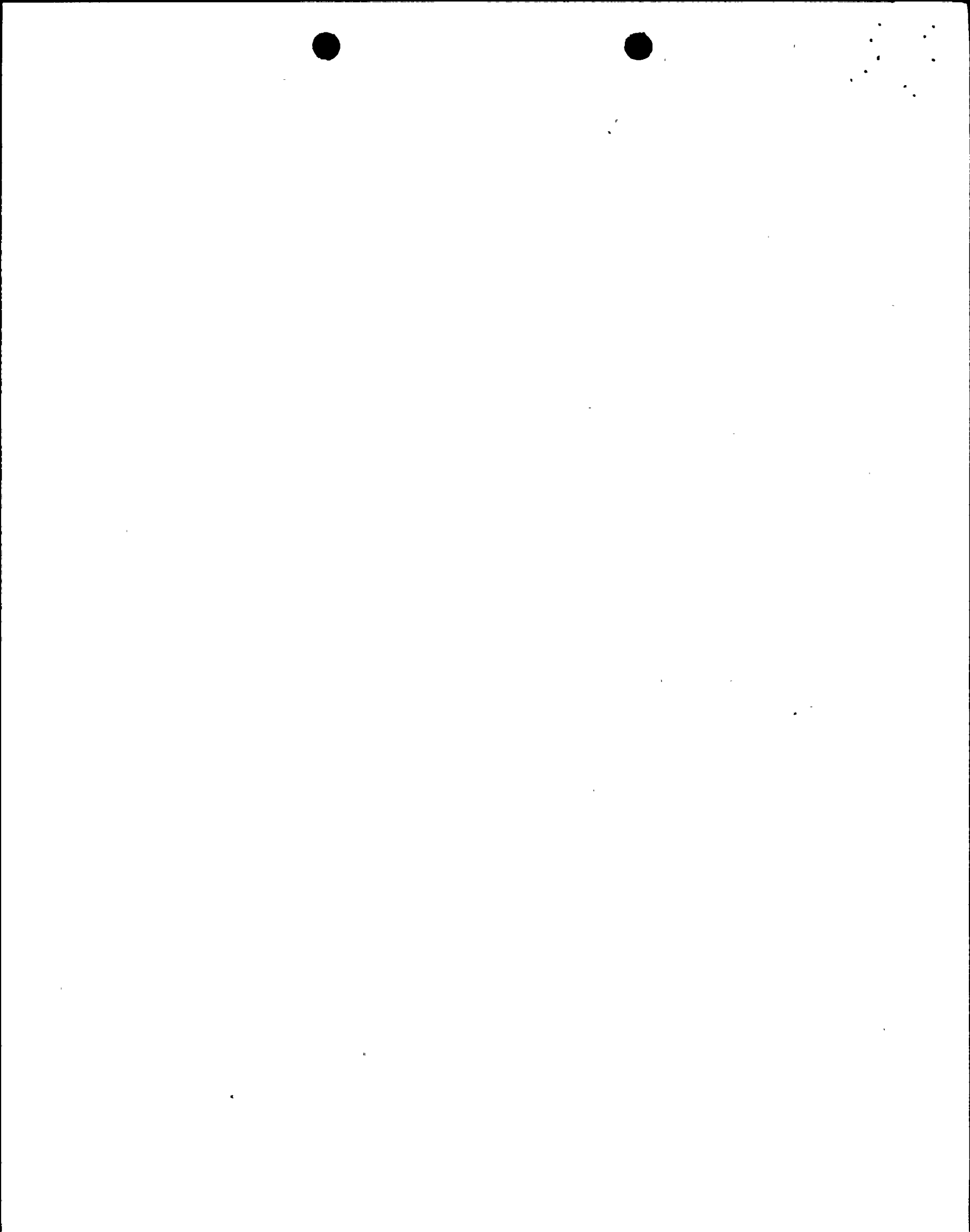
None

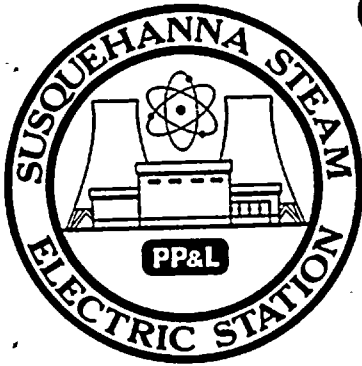
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.





AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388

UNIT Two

DATE 8-4-89

COMPLETED BY K.A. Young

TELEPHONE (717) 542-3251

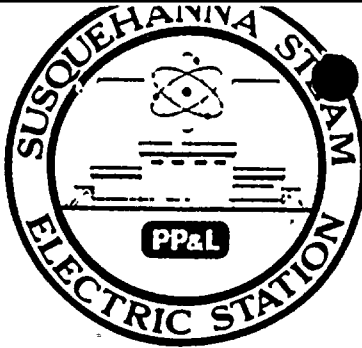
MONTH July 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1023</u>
2	<u>1036</u>
3	<u>1033</u>
4	<u>1032</u>
5	<u>1035</u>
6	<u>1033</u>
7	<u>1030</u>
8	<u>1039</u>
9	<u>1035</u>
10	<u>1025</u>
11	<u>1031</u>
12	<u>1041</u>
13	<u>1040</u>
14	<u>1041</u>
15	<u>1042</u>
16	<u>1039</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1039</u>
18	<u>1035</u>
19	<u>1033</u>
20	<u>1032</u>
21	<u>1037</u>
22	<u>861</u>
23	<u>713</u>
24	<u>1018</u>
25	<u>1026</u>
26	<u>1028</u>
27	<u>1024</u>
28	<u>1014</u>
29	<u>857</u>
30	<u>1039</u>
31	<u>1041</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 8-4-89
 COMPLETED BY K.A. Young
 TELEPHONE (717)542-3251

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: July 1989
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): 1074.3
7. Maximum Dependable Capacity (Net MWe): 1037.8

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:

No changes were made.

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>5,087</u>	<u>39,143</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>4,914.2</u>	<u>32,663.1</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>4,864.2</u>	<u>32,012.3</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,401,313</u>	<u>15,576,168</u>	<u>100,951,771</u>
17. Gross Electrical Energy Generated (MWH)	<u>778,962</u>	<u>5,118,182</u>	<u>33,065,011</u>
18. Net Electrical Energy Generated (MWH)	<u>752,444</u>	<u>4,936,797</u>	<u>31,826,858</u>
19. Unit Service Factor	<u>100.0</u>	<u>95.6</u>	<u>81.8</u>
20. Unit Availability Factor	<u>100.0</u>	<u>95.6</u>	<u>81.8</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.5</u>	<u>93.5</u>	<u>78.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.3</u>	<u>92.4</u>	<u>77.4</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>2.8</u>	<u>7.0</u>

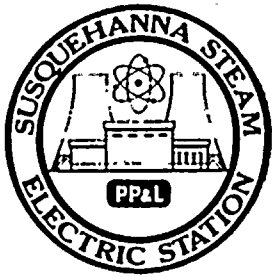
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Unit Two is scheduled for a refueling outage on September 9, 1989. Duration of this planned outage is eleven weeks.

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 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 8-4-89
 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
6	890629	S	0	B	4	N/A	NM	FAN	Unit Two commenced a power reduction at 2023 hours June 29th. for a partial maintenance outage. Three condenser bay area ventilation fans were repaired and control rod adjustments were performed. Unit returned to full power level at 0700 hours July 1st.

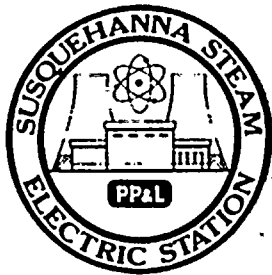
¹
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 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of 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



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 8-4-89
 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
7	890722	F	0	A	5	N/A	AD	XFMR	At 1718 hours July 22 the "A" Reactor Recirculation pump tripped on loss of power to the voltage regulator. Reactor power was reduced to as low as 45%. Unit Two operated under single loop conditions until electrical maintenance replaced the transformer and fuses and returned pump to service. I&C made necessary setpoint changes to support plant operations. Unit returned to full power operation by 0600 hours July 24.

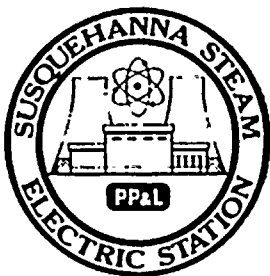
¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

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 Method:
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 8-4-89
 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	890729	S	0	B	5	N/A	XX	ZZZ	Unit Two power level was reduced to 60% commencing at 2230 hours July 29 for a partial maintenance outage. Single control rod scram time testing and a control rod sequence exchange were conducted. Full power operation was restored at 2100 hours July 30th.

¹
 F: Forced
 S: Scheduled

²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

³
 Method:
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 Exhibit I - Same Source



SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 8-4-89

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.

