

# CATEGORY 1

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FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387  
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388  
AUTH. NAME      AUTHOR AFFILIATION  
MATTERN, R.S.      Pennsylvania Power & Light Co.  
KUCZYNSKI, G.J.      Pennsylvania Power & Light Co.  
RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Sept 1997 for Susquehanna Steam Electric Station, Unit 1. W/971015 ltr.

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TITLE: Monthly Operating Report (per Tech Specs)

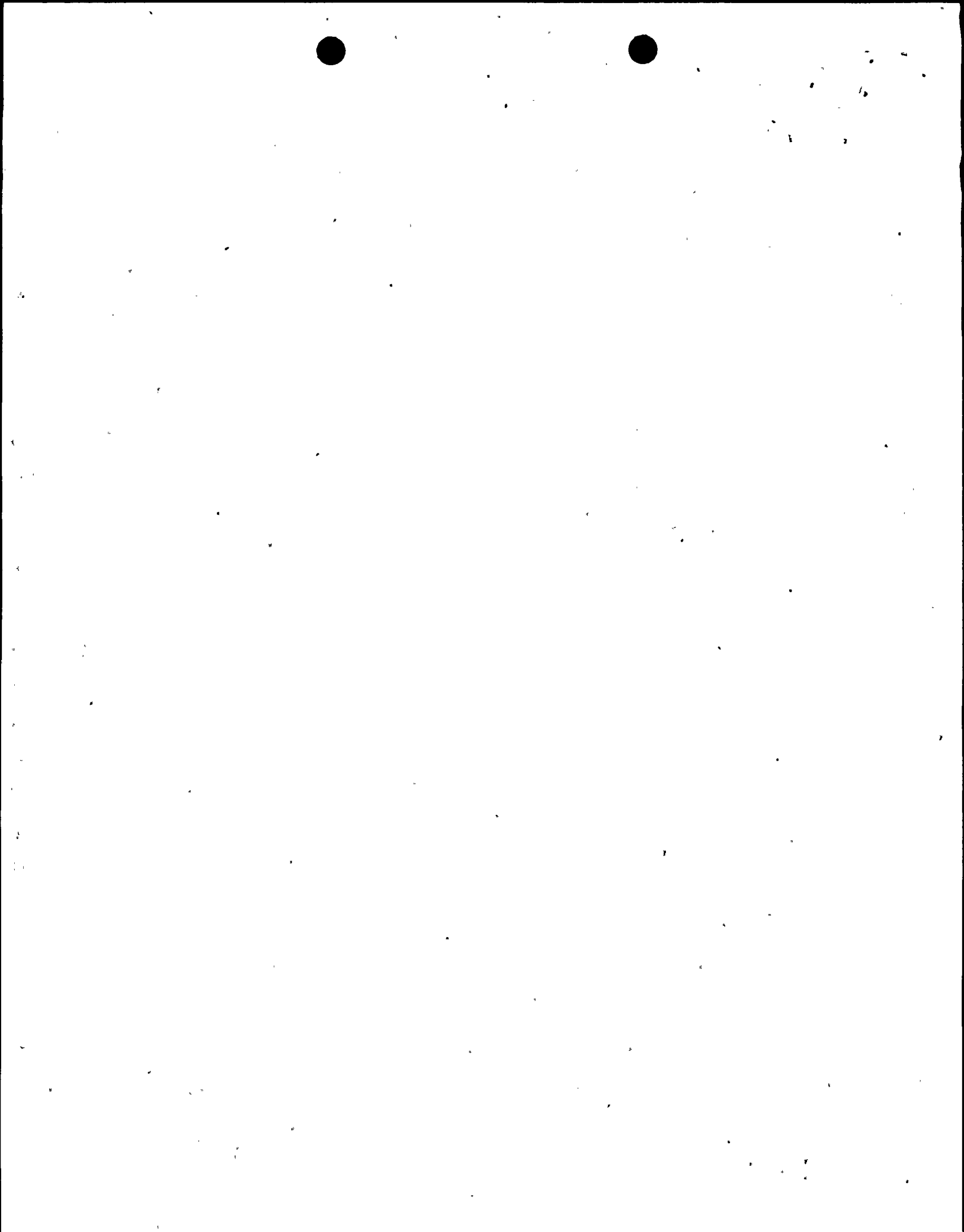
NOTES: 05000387

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SUSQUEHANNA STEAM ELECTRIC STATION  
P.O. BOX 467  
Berwick, PA 18603

*George J. Kuczynski*  
General Manager - Susquehanna SES  
(717) 542-3120  
Fax: (717) 542-1949

October 15, 1997

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

U. S Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Station P1-137  
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SUSQUEHANNA STEAM ELECTRIC STATION  
MONTHLY OPERATING REPORTS Docket Nos. 50-387/NPF-14  
and 50-388/NPF-22  
PLA - 0004784 FILE R41-2A

The September 1997 monthly operating reports for Susquehanna SES Units 1  
and 2 are attached.

Very truly yours,

  
G. J. Kuczynski

/cmm

Attachment

copy: NRC Region 1  
Mr. K. Jenison, NRC Sr. Resident Inspector  
Mr. C. Poslusny, Jr., NRC Sr. Project Manager

9710220224 970930  
PDR ADOCK 05000387  
R PDR

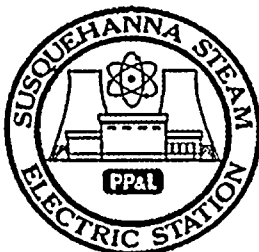




1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

# AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387  
 UNIT One  
 DATE 10/06/97  
 COMPLETED BY R. S. Mattern  
 TELEPHONE (717) 542-3453

MONTH September 1997

DAY    AVERAGE DAILY POWER LEVEL  
           (MWe-Net)

1.	<u>1044</u>
2.	<u>795</u>
3.	<u>1094</u>
4.	<u>1108</u>
5.	<u>1105</u>
6.	<u>1100</u>
7.	<u>1099</u>
8.	<u>1100</u>
9.	<u>1102</u>
10.	<u>1101</u>
11.	<u>1096</u>
12.	<u>1100</u>
13.	<u>1100</u>
14.	<u>1099</u>
15.	<u>1101</u>
16.	<u>1098</u>

DAY    AVERAGE DAILY POWER LEVEL  
           (MWe-Net)

17.	<u>1091</u>
18.	<u>1095</u>
19.	<u>1098</u>
20.	<u>1096</u>
21.	<u>1110</u>
22.	<u>1108</u>
23.	<u>1105</u>
24.	<u>1111</u>
25.	<u>1108</u>
26.	<u>1106</u>
27.	<u>1111</u>
28.	<u>1106</u>
29.	<u>1102</u>
30.	<u>1105</u>
31.	<u>          </u>

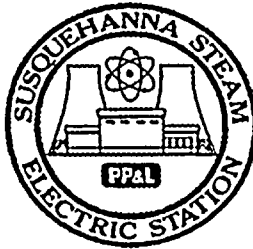
**INSTRUCTION:**

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.



1  
2  
3  
4  
5  
6  
7  
8  
9  
10

# OPERATING DATA REPORT



DOCKET NO. 50-387  
 UNIT One  
 DATE 10/06/97  
 COMPLETED BY R. S. Mattern  
 TELEPHONE (717) 542-3453

**NOTES:**

**OPERATING STATUS**

1. Unit Name: Susquehanna Steam Electric Station (U1)
2. Reporting Period: September 1997
3. Licensed Thermal Power (MWt): 3441
4. Nameplate Rating (Gross MWe): 1165
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1128
7. Maximum Dependable Capacity (Net MWe): 1090
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

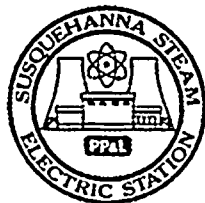
	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	720	6,551	125,496
12. Number of Hours Reactor Was Critical	720	6,207.0	100,168.8
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	720	6066.0	98,384.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,450,979	20,663,048	314,298,629
17. Gross Electrical Energy Generated (MWH)	812,643	6,883,514	102,758,708
18. Net Electrical Energy Generated (MWH)	784,715	6,635,681	98,791,176
19. Unit Service Factor	100.0	92.6	78.4
20. Unit Availability Factor	100.0	92.6	78.4
21. Unit Capacity Factor (Using MDC Net)	100.0	92.9	75.0
22. Unit Capacity Factor (Using DER Net)	99.1	92.1	74.3
23. Unit Forced Outage Rate	0	7.4	6.8
24. Shut Down 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	_____	_____

Note 1: Installation of new gross electric megawatt hour meter (November outage) affected the calculated core exposures on Power Plex Computer.

## UNIT SHUTDOWNS AND POWER REDUCTIONS



DOCKET NO. 50-387  
 UNIT One  
 DATE 10/06/97  
 COMPLETED BY R. S. Mattern  
 TELEPHONE (717) 542-3453

REPORT MONTH September 1997

No	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
8	970901	F	0.0	A	5	N/A	SJ	V	Unit 1 commenced a power reduction to 80% power at 1957 hours September 1 in response to the "B" Reactor Feedpump Minimum Flow Valve failure in the open position. Power was further reduced to 68% power to remove the "B" Reactor Feed Pump from service to repair the valve. The Unit returned to 100% power at 0610 hours September 3.

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: 10/06/97

Completed by: R. S. Mattern

Telephone: (717) 542-3251

Challenges to Main Steam Safety Relief Valves

None.

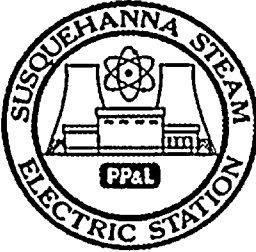
Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment System

None.

## AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-388  
 UNIT Two  
 DATE 10/06/97  
 COMPLETED BY R. S. Mattern  
 TELEPHONE (717) 542-3453

MONTH September 1997

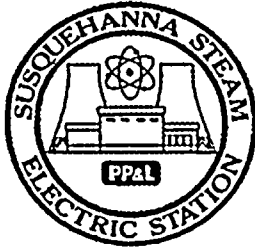
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1087
2.	1086
3.	1100
4.	1104
5.	1074
6.	1031
7.	1094
8.	1094
9.	1095
10.	1096
11.	1090
12.	1090
13.	1094
14.	1097
15.	1096
16.	1054

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17.	13
18.	0
19.	0
20.	0
21.	0
22.	0
23.	0
24.	0
25.	448
26.	950
27.	1083
28.	1099
29.	1097
30.	1097
31.	

**INSTRUCTION:**

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  
 UNIT Two  
 DATE 10/06/97  
 COMPLETED BY R. S. Mattern  
 TELEPHONE (717) 542-3453

NOTES:

OPERATING STATUS

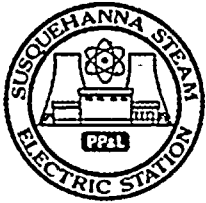
1. Unit Name: Susquehanna Steam Electric Station (U2)
2. Reporting Period: September 1997
3. Licensed Thermal Power (MWt): 3441
4. Nameplate Rating (Gross MWe): 1168
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1132
7. Maximum Dependable Capacity (Net MWe): 1094
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	720	6,551	110,735
12. Number of Hours Reactor Was Critical	538.1	5069.3	93,427.3
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	532.2	5003.5	91833.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,735,975	16,482,121	29,929,176
17. Gross Electrical Energy Generated (MWH)	576,826	5,493,640	97,617,552
18. Net Electrical Energy Generated (MWH)	553,502	5,284,395	94,005,211
19. Unit Service Factor	73.9	76.4	82.9
20. Unit Availability Factor	73.9	76.4	82.9
21. Unit Capacity Factor (Using MDC Net)	70.3	73.7	80.2
22. Unit Capacity Factor (Using DER Net)	69.9	73.3	79.8
23. Unit Forced Outage Rate	26.1	3.6	4.8
24. Shut Down Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>NONE</u>			

11. If Shut Down at End of Report Period, Estimated Date of Startup: \_\_\_\_\_
12. Units in Test Status (Prior to Commercial Operation):
 

	Forecast	Achieved
INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____

## UNIT SHUTDOWNS AND POWER REDUCTIONS



DOCKET NO. 50-388  
 UNIT Two  
 DATE 10/06/97  
 COMPLETED BY R. S. Mattern  
 TELEPHONE (717) 542-3453

REPORT MONTH September 1997

No	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
6	97905	S	0.0	B	5	NA	XX	ZZZ	Unit 2 commenced a power reduction to as low as 80% power at 2015 hours September 5 to perform a Control rod sequence exchange and scram time testing. The Unit returned to 100% power at 1520 hours September 6.
7	970916	187.8	A	3	NA	NA	AD	ZZZ	Unit 2 commenced shutdown at 2147 hours September 16 to investigate the cause of unidentified drywell leakage. The generator was removed from service at 0350 hours September 17 and the reactor was manually scrammed at 0416 hours September 17. The cause of the leakage was found to be a 180° through wall crack at a welded connection on the "B" Rx Recirc pump discharge valve bonnet vent line. The vent line piping was successfully repaired and startup commenced at 1321 hours September 23. The Unit reached 100% power at 1500 hours September 27.

- |                                 |  |  |   |                               |
|---------------------------------|--|--|---|-------------------------------|
| 1.<br>F. Forced<br>S. Scheduled | 2.<br>Reason:<br>A - Equipment Failure (Explain)<br>B - Maintenance or Test<br>C - Refueling<br>D - Regulatory Restriction<br>E - Operator Training & License Examination<br>F - Administrative<br>G - Operational Error (Explain) | 3.<br>Method:<br>1- Manual<br>2- Manual Scram<br>3- Automatic Scram<br>4- Continuation from previous month<br>5- Reduction<br>9- Other | 4.<br>Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161) | 5.<br>Exhibit I - Same Source |
|---------------------------------|--|--|---|-------------------------------|

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number: 50-388

Date: 10/06/96

Completed by: R. S. Mattern

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 System

None.