

# CATEGORY 1

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ACCESSION NBR: 9704220165      DOC. DATE: 97/03/31      NOTARIZED: NO      DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv      05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
 AUTH. NAME      AUTHOR AFFILIATION  
 MATTERN, B.      Pennsylvania Power & Light Co.  
 KUCZYNSKI, G.J.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Mar 1997 for Susquehanna Steam Electric Station, Units 1 & 2. W/970414 ltr.

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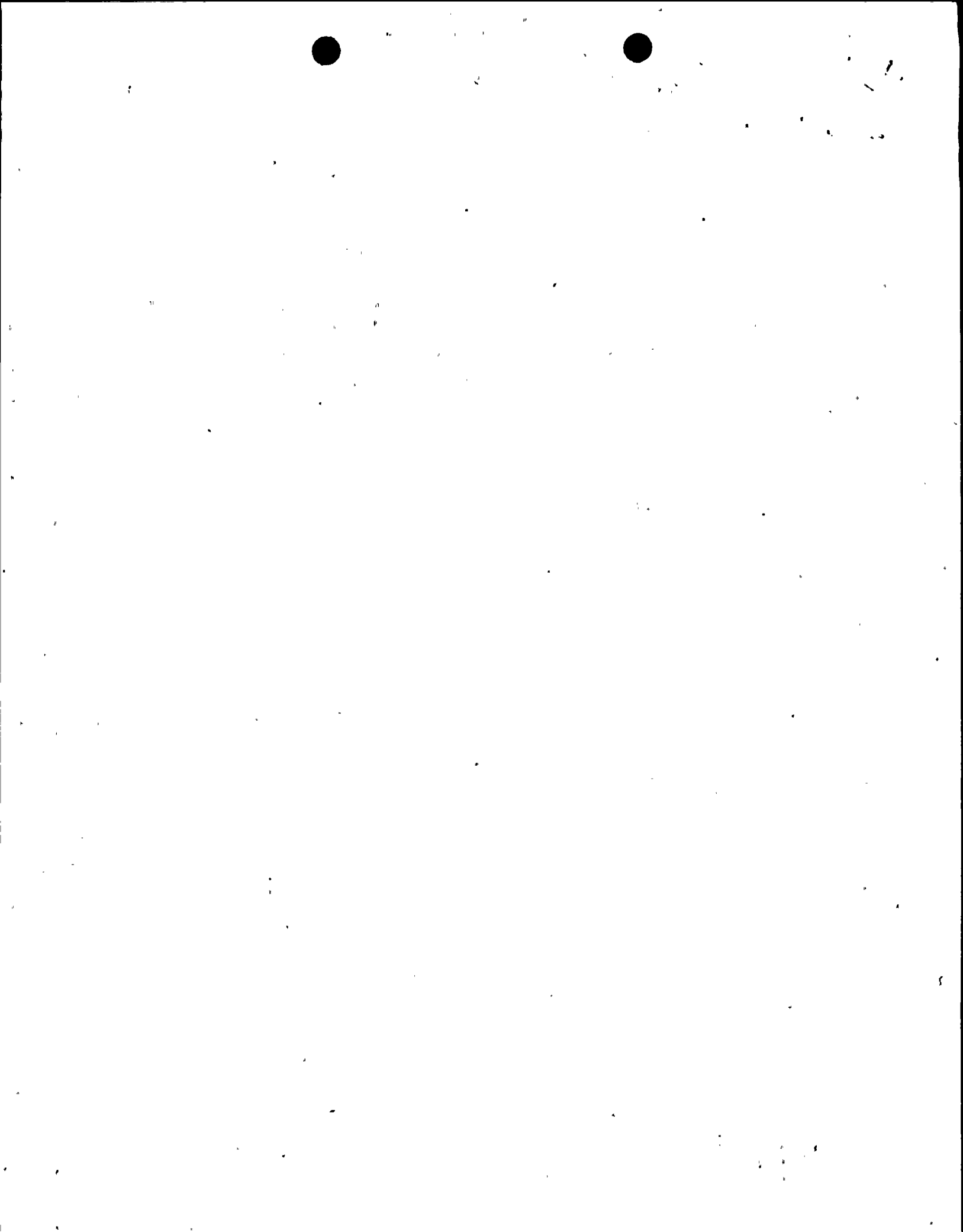
NOTES: 05000387

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**Pennsylvania Power & Light Company**

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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

April 14, 1997

**Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6**

U.S. Nuclear Regulatory Commission  
Attn.: Document Control Desk  
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**SUSQUEHANNA STEAM ELECTRIC STATION**  
MONTHLY OPERATING REPORTS Docket Nos. 50-387/NPF-14  
and 50-388/NPF-22  
PLA- 4609 FILE R41-2A

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

Very truly yours,

*G. J. Kuczynski*  
G. J. Kuczynski

Attachment

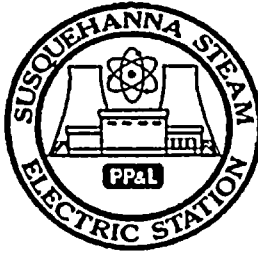
copy: NRC Region I  
Mr. K. Jenison, NRC Sr. Resident Inspector  
Mr. C. Poslusny, Jr., NRC Sr. Project Manager

*JE 24/1*

9704220165 970331  
PDR ADOCK 05000387  
R PDR



# AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-387  
 UNIT One  
 DATE 4-04-97  
 COMPLETED BY Becky Mattern  
 TELEPHONE (717) 542-3453

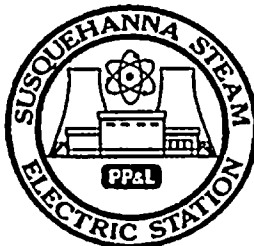
MONTH March 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	<u>0</u>	17.	<u>0</u>
2.	<u>0</u>	18.	<u>402</u>
3.	<u>0</u>	19.	<u>941</u>
4.	<u>0</u>	20.	<u>1114</u>
5.	<u>0</u>	21.	<u>1114</u>
6.	<u>0</u>	22.	<u>1115</u>
7.	<u>0</u>	23.	<u>1116</u>
8.	<u>0</u>	24.	<u>1115</u>
9.	<u>0</u>	25.	<u>1114</u>
10.	<u>0</u>	26.	<u>1116</u>
11.	<u>0</u>	27.	<u>1112</u>
12.	<u>0</u>	28.	<u>1111</u>
13.	<u>0</u>	29.	<u>1110</u>
14.	<u>0</u>	30.	<u>1112</u>
15.	<u>0</u>	31.	<u>1117</u>
16.	<u>0</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.

# OPERATING DATA REPORT



DOCKET NO. 50-387  
 UNIT One  
 DATE 4/04/97  
 COMPLETED BY Becky Mattern  
 TELEPHONE (717) 542-3453

### NOTES

1. Gross thermal energy for February should have been reported as 1,968,594 (MWH).

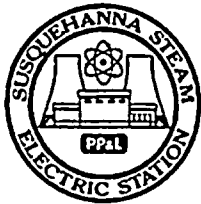
### OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (U1)
2. Reporting Period: March 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	744	2,160	121,105
12. Number of Hours Reactor Was Critical	478.6	1,816.0	95,777.8
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	337.6	1,675.0	93,993.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,153,938	5,665,033	299,300,614
17. Gross Electrical Energy Generated (MWH)	366,028	1,903,797	97,778,991
18. Net Electrical Energy Generated (MWH)	344,822	1,827,411	93,982,906
19. Unit Service Factor	45.4	77.6	77.6
20. Unit Availability Factor	45.4	77.6	77.6
21. Unit Capacity Factor (Using MDC Net)	42.5	77.6	74.1
22. Unit Capacity Factor (Using DER Net)	42.1	76.9	73.4
23. Unit Forced Outage Rate	54.6	22.5	7.1
24. Shut Down 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	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-387  
 UNIT One  
 DATE 04/04/97  
 COMPLETED BY Becky Mattern  
 TELEPHONE (717) 542-3453

REPORT MONTH March 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
3	970225	F	406.4	H	4	1-97-006	WF	PL	<p>Unit One was manually scrammed at 1723 hours February 25 due to the loss of main condenser vacuum. Main condenser vacuum was lost as a result of the isolation of the Offgas Recombiner System. Water from a core drilling operation dripped onto the local hydrogen analyzer panel causing an offgas system isolation. After completion of miscellaneous maintenance activities, the Unit commenced startup at 0533 hours March 3. During startup the Unit experienced problems with the Main Turbine Bypass valves. The unit commenced shutdown at 0155 hours March 5 to investigate the problem. The Unit recommenced startup at 0446 hours March 9 upon completion of the Bypass Valve investigation. Startup was again suspended due to continuing problems with the Bypass valves and the Electrohydraulic Control (EHC) System. A controlled shutdown commenced at 0312 hours March 12. Upon completion of investigations and repairs to the Main Turbine EHC system, startup commenced at 1210 hours March 16. The Unit returned to service at 2222 hours March 17 and reached 100% power at 2300 hours March 19.</p>

- |                                 |   |  |   |                               |
|---------------------------------|---|--|---|-------------------------------|
| 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)<br>H - Other (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: 50-387**

**Date: 4/05/97**

**Completed by: Becky Mattern**

**Telephone: (717) 542-3453**

**Challenges to Main Steam Safety Relief Valves**

**None.**

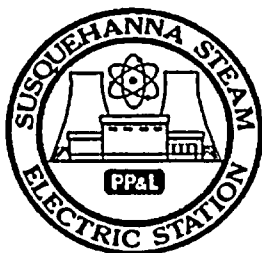
**Changes to the Offsite Dose Calculation Manual**

**None.**

**Major Changes to Radioactive Waste Treatment System**

**None.**

## AVERAGE DAILY UNIT POWER LEVEL



DOCKET NO. 50-388  
 UNIT Two  
 DATE 4/5/97  
 COMPLETED BY Becky Mattern  
 TELEPHONE (717) 542-3453

MONTH March 1997

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1.	1006
2.	1001
3.	1006
4.	1003
5.	994
6.	992
7.	993
8.	988
9.	983
10.	982
11.	978
12.	969
13.	964
14.	714
15.	0
16.	0

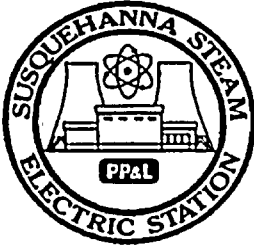
DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17.	0
18.	0
19.	0
20.	0
21.	0
22.	0
23.	0
24.	0
25.	0
26.	0
27.	0
28.	0
29.	0
30.	0
31.	0

**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 4/05/97  
 COMPLETED BY Becky Mattern  
 TELEPHONE (717) 542-3453

**NOTES:**

OPERATING STATUS

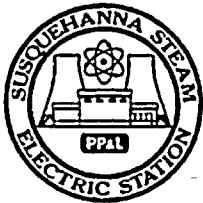
1. Unit Name: Susquehanna Steam Electric Station (U2)
2. Reporting Period: March 1997
3. Licensed Thermal Power (Mwt): 3441
4. Nameplate Rating (Gross MWe): 1168
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1132
7. Maximum Dependable Capacity (Net MWe): 1094
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: \_\_\_\_\_

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	2,160	106,344
12. Number of Hours Reactor Was Critical	338.4	1754.4	90,112.4
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	337.63	1753.6	88,583.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,008,978	5,676,889	287,123,944
17. Gross Electrical Energy Generated (MWH)	339,540	1,905,828	94,029,740
18. Net Electrical Energy Generated (MWH)	322,906	1,834,342	90,555,158
19. Unit Service Factor	45.4	81.2	83.3
20. Unit Availability Factor	45.4	81.2	83.3
21. Unit Capacity Factor (Using MDC Net)	39.7	77.6	80.6
22. Unit Capacity Factor (Using DER Net)	39.5	77.2	80.1
23. Unit Forced Outage Rate	0	0	4.8
24. Shut Down Scheduled Over Next 6 Months (Type, Date, and Duration of Each):			

25. If Shut Down at End of Report Period, Estimated Date of Startup: April 22, 1997
26. Units in Test Status (Prior to Commerical Operation):
 

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

## UNIT SHUTDOWNS AND POWER REDUCTIONS



DOCKET NO. 50-388  
 UNIT Two  
 DATE 4/05/97  
 COMPLETED BY Becky Mattern  
 TELEPHONE (717) 542-3453

REPORT MONTH March 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
4	970314	S	406.4	C	2	NA	XX	ZZZ	Unit 2 commenced shutdown from 86% power at 1215 hours March 14. Main generator was taken offline at 0138 hours and the reactor manually scrammed at 0224 hours March 15. The Unit is currently in its 8th Refuel Inspection Outage.

- |                                 |   |  |   |                               |
|---------------------------------|---|--|---|-------------------------------|
| 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)<br>H - Other (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: 4/05/97**

**Completed by: Becky 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.**