

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8907200405      DOC. DATE: ~~89/06/30~~      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      UNIT ENCL:  
 YOUNG, K.A.      Pennsylvania Power & Light Co.      UNIT DE DISTRIBUTION  
 KEISER, H.W.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for June 1989 for Susquehanna SES, Units 1 & 2. W/890717 ltr.

DISTRIBUTION CODE: IE24D      COPIES RECEIVED: LTR 1      ENCL 1      SIZE: 13  
 TITLE: Monthly Operating Report (per Tech Specs)

NOTES: LPDR 1 cy Transcripts.      05000387  
           LPDR 1 cy Transcripts.      05000388

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**Pennsylvania Power & Light Company**

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

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

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

**JUL 17 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-3225 FILE R41-2A

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

Dear Mr. McDonald:

The June 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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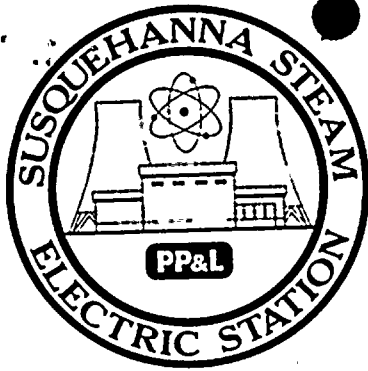
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AVERAGE DAILY UNIT POWER LEVEL

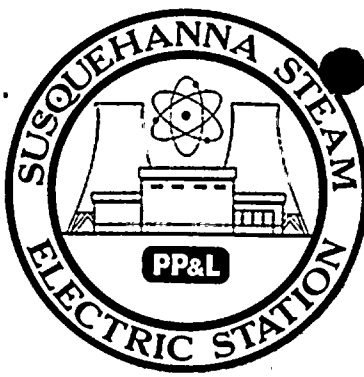
DOCKET NO. 50-387  
 UNIT One  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

MONTH June 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	1039
2	0	18	1040
3	0	19	1026
4	0	20	926
5	0	21	1033
6	0	22	1032
7	0	23	1015
8	0	24	688
9	0	25	984
10	170	26	1032
11	329	27	1030
12	516	28	1037
13	679	29	1044
14	708	30	1044
15	959	31	
16	1034		

**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 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

OPERATING STATUS

- Unit One
1. Unit Name: Susquehanna Steam Electric Station
  2. Reporting Period: June 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

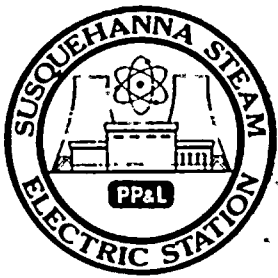
	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	4,343	53,160
12. Number Of Hours Reactor Was Critical	539.4	2,260.5	39,202.3
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	505.2	2,145.7	38,299.0
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,393,820	6,573,040	119,176,551
17. Gross Electrical Energy Generated (MWH)	457,664	2,163,096	38,886,956
18. Net Electrical Energy Generated (MWH)	437,160	2,056,828	37,302,309
19. Unit Service Factor	70.2	49.4	72.0
20. Unit Availability Factor	70.2	49.4	72.0
21. Unit Capacity Factor (Using MDC Net)	58.8	45.9	68.0
22. Unit Capacity Factor (Using DER Net)	57.8	45.1	66.8
23. Unit Forced Outage Rate	0	18.0	10.2

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 June 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

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	890330	S	208.2	C	4	N/A	XX	ZZZ	Unit One commenced its fourth refueling and inspection outage (RIO) on March 30, 1989. Fourth RIO ended with main generator synchronization at 1610 hours June 9th.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

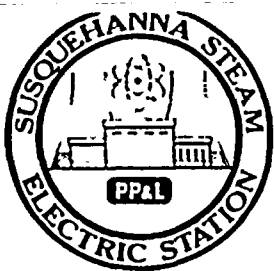
<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance or Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Continuation  
 from previous month  
 5-Reduction  
 9-Other

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

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
7	890609	S	6.3	B	9	N/A	SN	LCV	Unit One experienced a turbine trip on high moisture separator level at 1647 hours June 9th. Reactor remained at power during this outage. Outage was classified a continuation of planned outage as part of Unit One's return to service following Fourth RIO. Main generator was synchronized to the grid at 2307 hours June 9th.

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





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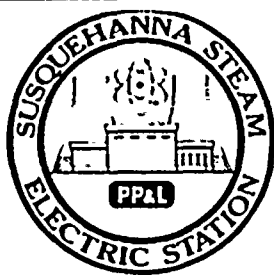
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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 7-10-89  
 COMPLETED BY K. A. Young  
 TELEPHONE (717) 542-3251

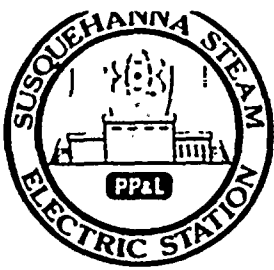
No.	Date	Type <sup>1</sup>	Duration (Hours)	Reason <sup>2</sup>	Method of Shutting Down Reactor <sup>3</sup>	Licensee Event Report #	System Code <sup>4</sup>	Component Code <sup>5</sup>	Cause & Corrective Action to Prevent Recurrence
8	890610	S	0.3	B	9	N/A	TA	SSV	Unit One conducted a turbine overspeed trip test at 0325 hours June 10th. Main generator was re-synchronized to the grid at 0346 hours June 10th. Power ascension schedule for planned ramp to 100% power level was completed at 1030 hours June 15th.

1  
 F: Forced  
 S: Scheduled  
 (9/77)

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



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

REPORT MONTH June 1989

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
9	890623	S	0	B	5	N/A	XX	ZZZ	Unit One commenced power reduction at 2100 hours June 23rd for schedule testing. Neutron noise baseline stability testing and single loop recirculation flow baseline data acquisition were completed. Unit returned to full power at 1200 hours June 25th.

1  
 F: Forced  
 S: Scheduled  
 (9/77)

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 7-10-89

Completed by K.A. Young

Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

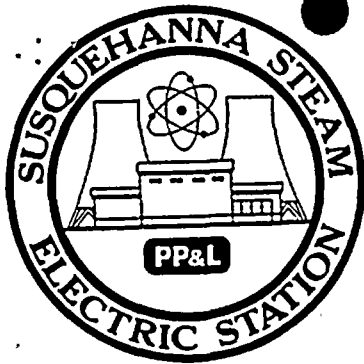
None

Major Changes to Radioactive Waste Treatment Systems

None



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AVERAGE DAILY UNIT POWER LEVEL

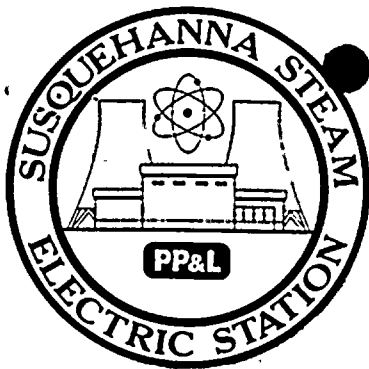
DOCKET NO. 50-388  
 UNIT Two  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

MONTH June 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1027	17	1039
2	1026	18	1041
3	1034	19	1038
4	1027	20	1034
5	1037	21	1031
6	1039	22	1028
7	1041	23	1029
8	1038	24	1030
9	1001	25	1027
10	699	26	1033
11	1041	27	1032
12	1044	28	1039
13	1036	29	989
14	1042	30	623
15	1041	31	
16	1035		

**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 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

OPERATING STATUS.

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: June 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
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report; Give Reasons:  
No changes were made

Notes

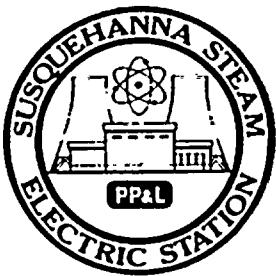
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>4,343</u>	<u>38,399</u>
12. Number Of Hours Reactor Was Critical	<u>720</u>	<u>4,170.2</u>	<u>31,919.1</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>720</u>	<u>4,120.2</u>	<u>31,268.3</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,318,580</u>	<u>13,174,855</u>	<u>98,550,458</u>
17. Gross Electrical Energy Generated (MWH)	<u>751,662</u>	<u>4,339,220</u>	<u>32,286,049</u>
18. Net Electrical Energy Generated (MWH)	<u>725,246</u>	<u>4,184,353</u>	<u>31,074,414</u>
19. Unit Service Factor	<u>100</u>	<u>94.9</u>	<u>81.4</u>
20. Unit Availability Factor	<u>100</u>	<u>94.9</u>	<u>81.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>97.1</u>	<u>92.8</u>	<u>78.0</u>
22. Unit Capacity Factor (Using DER Net)	<u>95.9</u>	<u>91.8</u>	<u>77.1</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>3.2</u>	<u>7.1</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 June 1989

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

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
5	890609	S	0	B	5	N/A	X	ZZZ	Unit Two commenced a power reduction for a partial maintenance outage at 2100 hours, June 9th. Control Rod sequence exchange was conducted and the "D" waterbox was inspected and cleaned. Unit returned to full power level at 0400 hours June 11th.

<sup>1</sup>  
 F: Forced  
 S: Scheduled

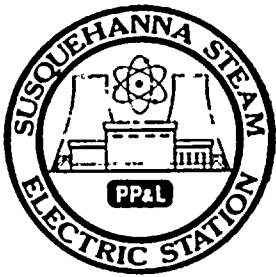
<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<sup>3</sup>  
 Method:  
 1-Manual  
 2-Manual Scram.  
 3-Automatic Scram.  
 4-Continuation  
 from previous month  
 5-Reduction  
 9-Other

<sup>4</sup>  
 Exhibit G - Instructions  
 for Preparation of Data  
 Entry Sheets for Licensee  
 Event Report (LER) File (NUREG-  
 0161)

<sup>5</sup>  
 Exhibit I - Same Source





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH June 1989

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 7-10-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

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	890629	S	0	B	5	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.

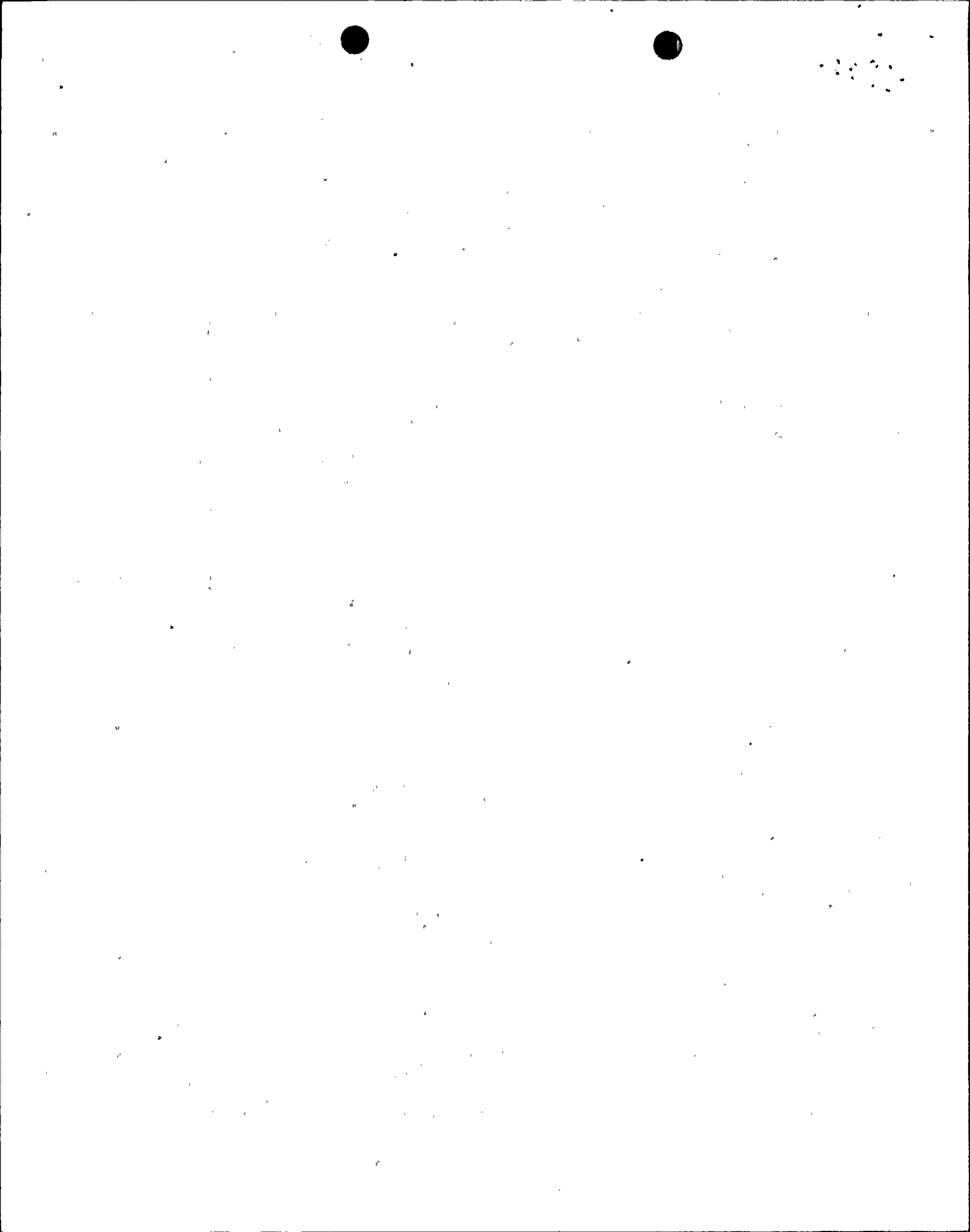
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 F: Forced  
 S: Scheduled

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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 2-Manual Scram.  
 3-Automatic Scram.  
 4-Continuation from previous month  
 5-Reduction  
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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 7-10-89

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