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ACCESSION NBR: 9108190024 DOC.DATE: 91/07/31 NOTARIZED: NO DOCKET #
 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.
 KEISER, H.W. Pennsylvania Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Jul 1991 for Susquehanna Steam Electric Station. W/910813 ltr.

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101-1179 • 215/774-5151

Harold W. Keiser
Senior Vice President-Nuclear
215/774-4194

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

AUG 13 1991

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

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-3631 FILE R41-2A

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

The July 1991 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

H. W. Keiser

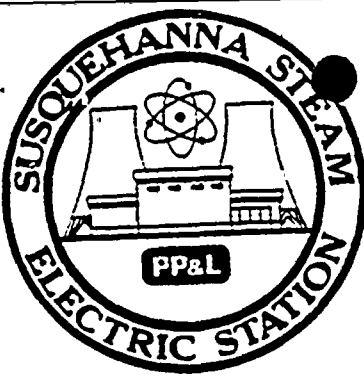
Attachment

cc: NRC Region I
Mr. G. S. Barber, NRC Resident Inspector
Mr. J. J. Raleigh, NRC Project Manager

9108190024 910731
PDR ADOCK 05000387
R PDR

JE24/11

1950



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE 8-5-91
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH July 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1038</u>
2	<u>1038</u>
3	<u>1033</u>
4	<u>1035</u>
5	<u>1037</u>
6	<u>1030</u>
7	<u>1028</u>
8	<u>1028</u>
9	<u>1038</u>
10	<u>1039</u>
11	<u>1039</u>
12	<u>1013</u>
13	<u>727</u>
14	<u>1028</u>
15	<u>1035</u>
16	<u>1032</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1027</u>
18	<u>1025</u>
19	<u>1024</u>
20	<u>1021</u>
21	<u>1016</u>
22	<u>1020</u>
23	<u>1013</u>
24	<u>1029</u>
25	<u>1027</u>
26	<u>1029</u>
27	<u>1034</u>
28	<u>1034</u>
29	<u>1034</u>
30	<u>1035</u>
31	<u>443</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.

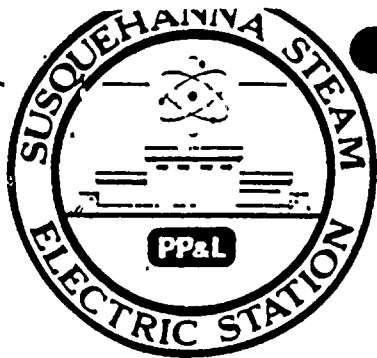


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OPERATING DATA REPORT

DOCKET NO. 50-387
 DATE 8-5-91
 COMPLETED BY K.A. Young
 TELEPHONE (717)542-3251

OPERATING STATUS Unit One

1. Unit Name: Susquehanna Steam Electric Station
 2. Reporting Period: July 1991
 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): 1069.6
 7. Maximum Dependable Capacity (Net MWe): 1033.1

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:
No changes were made.

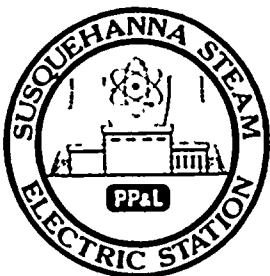
9. Power Level To Which Restricted, If Any (Net MWe): None
 10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	5087	71,424
12. Number Of Hours Reactor Was Critical	730.6	5073.6	55,377.0
13. Reactor Reserve Shutdown Hours	0	0	1032
14. Hours Generator On-Line	730.6	5073.6	54,205.7
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,375,076	16,376,378	170,082,502
17. Gross Electrical Energy Generated (MWH)	771,556	5,387,184	55,540,804
18. Net Electrical Energy Generated (MWH)	744,689	5,199,808	53,350,483
19. Unit Service Factor	98.2	99.7	75.9
20. Unit Availability Factor	98.2	99.7	75.9
21. Unit Capacity Factor (Using MDC Net)	96.9	98.9	72.3
22. Unit Capacity Factor (Using DER Net)	95.3	97.4	71.1
23. Unit Forced Outage Rate	1.8	.3	8.1

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	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-387
 UNIT NAME One
 DATE 8-5-91
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

REPORT MONTH July 1991

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	910712	S	0.0	B	5	N/A	XX	ZZZ	<p>Commencing at 2100 hours July 12 Unit One reactor power was reduced to as low as 38% for scheduled maintenance outage.</p> <p>Control rod sequence exchange, MSIV testing, B waterbox cleaning and recirc MG Set brush changeouts were completed. The unit returned to 100% power at 0400 hours July 14.</p>

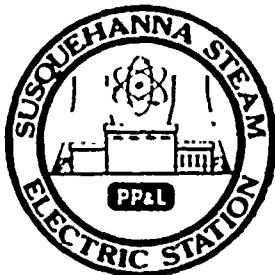
¹
 F: Forced
 S: Scheduled

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



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1991

DOCKET NO. 50-387
 UNIT NAME One
 DATE 8-5-91
 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	910731	F	13.4	A	3	91-008-00	JC	XEMR	Unit One experienced an automatic Reactor scram at 1034 hours July 31. At 0755 hours Reactor Protection System (RPS) B Division was placed in tripped condition due to failure of B main steam line radiation monitor. Loss of offsite power to the T-10 startup transformer initiated a 1/2 scram to the RPS A Division at 1034 hours. With both Division of RPS actuated, Unit One auto scrambled and the MSIV's isolated. Reactor pressure was controlled with manual operation of SRV's and vessel level was maintained with RCIC. Investigation is continued into corrective actions to prevent recurrence and will be reported in the August report.

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.
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 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: July 1991

Completed by K. A. Young

Telephone: (717) 542-3251

Challenges to Main Steam Safety Relief Valves

See Attached Sheet.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.

DOCKET NUMBER 50-387

CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

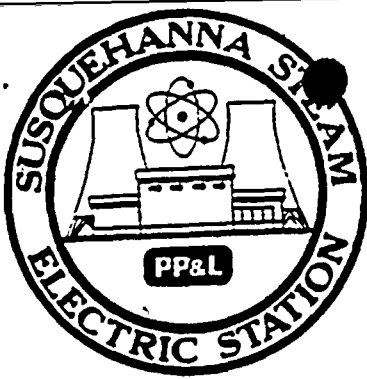
In response to July 31, 1991 Automatic Reactor Scram from 100% power one safety relief valve (SRV) automatically actuated twice and reseated successfully. To control reactor pressure and commence reactor vessel depressurization, reactor operators sequentially opened SRV's in accordance with EO-100-102 (RPV control bases). First manual opened SRV was at 10:41 to initiate operator control of reactor pressure. SRV's were opened and closed IAW EO-100-102 through 1755 hours on July 31 when main steam isolation valves were opened.

Listed below are the times and pressures at which automatic actuations and first manual SRV's opened and closed.

Event reported in LER 387/91-008-00.

SRV	TIME		PRESSURE	
	OPEN (HRS:min:sec)	CLOSED (HRS:min;sec)	OPEN (PSIG)	CLOSED (PSIG)
(AUTO) E	10:38:45	10:39:42	1052	974
(AUTO) E	10:40:59	10:41:35	1054	969
(MANUAL) A	10:41:19	10:46:47	1008	766

Data from SPDS



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388
UNIT Two
DATE 8-5-91
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

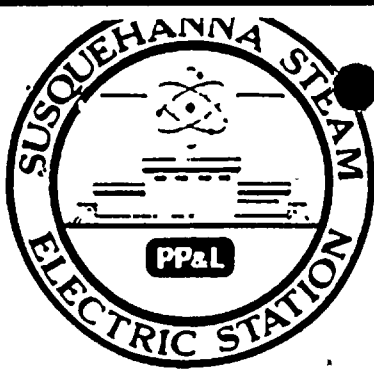
MONTH July 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1050</u>
2	<u>1048</u>
3	<u>1045</u>
4	<u>1045</u>
5	<u>1046</u>
6	<u>1041</u>
7	<u>1039</u>
8	<u>1037</u>
9	<u>1045</u>
10	<u>1047</u>
11	<u>1046</u>
12	<u>1043</u>
13	<u>1041</u>
14	<u>1043</u>
15	<u>1047</u>
16	<u>1045</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1041</u>
18	<u>1039</u>
19	<u>1036</u>
20	<u>1034</u>
21	<u>1031</u>
22	<u>1032</u>
23	<u>1032</u>
24	<u>1041</u>
25	<u>1038</u>
26	<u>1040</u>
27	<u>1048</u>
28	<u>1046</u>
29	<u>1045</u>
30	<u>1046</u>
31	<u>1036</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 8-5-91
 COMPLETED BY K. A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: July 1991
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): 1075.5
7. Maximum Dependable Capacity (Net MWe): 1039.0

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

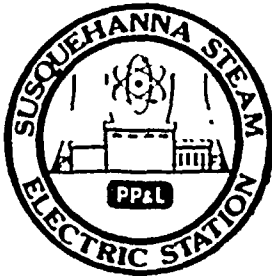
	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5087</u>	<u>56,663</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>3,598.5</u>	<u>46,461.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>744</u>	<u>3511.6</u>	<u>45,551.4</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,455,847</u>	<u>11,153,593</u>	<u>144,247,057</u>
17. Gross Electrical Energy Generated (MWH)	<u>801,966</u>	<u>3,649,105</u>	<u>47,244,224</u>
18. Net Electrical Energy Generated (MWH)	<u>774,966</u>	<u>3,505,006</u>	<u>45,456,384</u>
19. Unit Service Factor	<u>100</u>	<u>69.0</u>	<u>80.4</u>
20. Unit Availability Factor	<u>100</u>	<u>69.0</u>	<u>80.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.3</u>	<u>66.3</u>	<u>77.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.2</u>	<u>65.6</u>	<u>76.4</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>5.8</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	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH July 1991

DOCKET NO. 50-388
 UNIT NAME Unit Two
 DATE 8-5-91
 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
									No report required for July 1991.

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.
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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: July 1991

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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