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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

MAY 14 1991

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-3581 FILE R41-2A**

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

Dear Mr. McDonald:

The April 1991 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. J.J. Raleigh, NRC Project Manager

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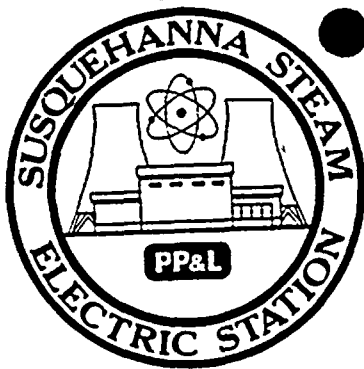
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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387

UNIT One

DATE 5-11-91

COMPLETED BY K.A. Young

TELEPHONE (717) 542-3251

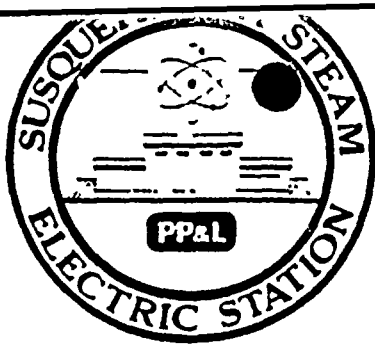
MONTH April 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>838</u>	17	<u>683</u>
2	<u>840</u>	18	<u>693</u>
3	<u>838</u>	19	<u>872</u>
4	<u>975</u>	20	<u>1053</u>
5	<u>1048</u>	21	<u>1051</u>
6	<u>1044</u>	22	<u>1053</u>
7	<u>1039</u>	23	<u>1050</u>
8	<u>1036</u>	24	<u>1049</u>
9	<u>1034</u>	25	<u>1048</u>
10	<u>1045</u>	26	<u>1041</u>
11	<u>1052</u>	27	<u>1043</u>
12	<u>1052</u>	28	<u>1045</u>
13	<u>1049</u>	29	<u>1050</u>
14	<u>1043</u>	30	<u>1033</u>
15	<u>1045</u>	31	<u>          </u>
16	<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. 50-387  
 DATE 5/11/91  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3221

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: April 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.

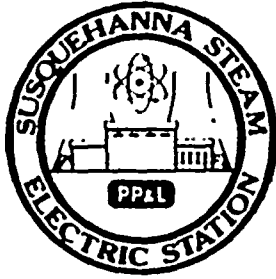
9. Power Level To Which Restricted, If Any (Net MWe): None

10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	719	2879	69,216
12. Number Of Hours Reactor Was Critical	719	2879	53,182.4
13. Reactor Reserve Shutdown Hours	0	0	1032
14. Hours Generator On-Line	719	2879	52,011
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,246,430	9,205,238	162,911,362
17. Gross Electrical Energy Generated (MWH)	739,444	3,048,276	53,201,896
18. Net Electrical Energy Generated (MWH)	713,669	2,942,339	51,093,014
19. Unit Service Factor	100	100	75.1
20. Unit Availability Factor	100	100	75.1
21. Unit Capacity Factor (Using MDC Net)	96.1	98.9	71.5
22. Unit Capacity Factor (Using DER Net)	94.5	97.3	70.3
23. Unit Forced Outage Rate	0	0	8.4
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 April 1991

DOCKET NO. 50-387  
 UNIT NAME Unit One  
 DATE 5-11-91  
 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	910417	F	0.0	B	5	N/A	SJ	LCV	Unit One was reduced to 60% power level commencing at 0300 hours April 17. The "B" string of feedwater system was isolated and drained so that level control valves on the 3B and 5B feedwater heaters could be repaired. Unit returned to 100% power at 1800 hours April 19.

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: April 1991

Completed by K. A. Young

Telephone: (717) 542-3251

Challenges to Main Steam Safety Relief Valves

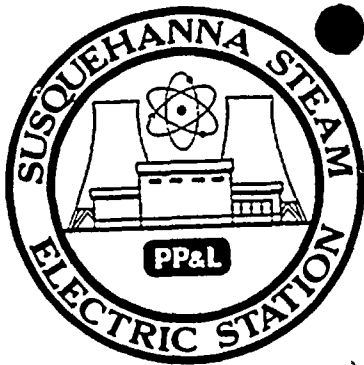
None.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.



AVERAGE DAILY UNIT POWER LEVEL

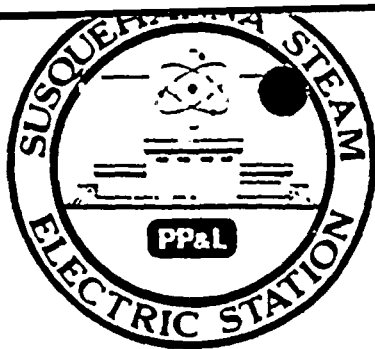
DOCKET NO. 50-388  
UNIT Two  
DATE 5/11/91  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

MONTH April 1991

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>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</u>
16	<u>0</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 5/11/91  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3250

OPERATING STATUS

- Unit Two
1. Unit Name: Susquehanna Steam Electric Station
  2. Reporting Period: April 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
  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

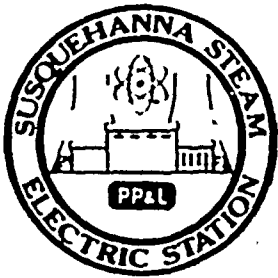
	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	719	2879	54,455
12. Number Of Hours Reactor Was Critical	0	1,536.7	44,399.4
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	0	1,489.7	43,529.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	NA	4,732,149	137,825,613
17. Gross Electrical Energy Generated (MWH)	NA	1,553,277	45,148,396
18. Net Electrical Energy Generated (MWH)	-5,563	1,483,519	43,434,897
19. Unit Service Factor	0	51.7	79.9
20. Unit Availability Factor	0	51.7	79.9
21. Unit Capacity Factor (Using MDC Net)	NA	49.6	76.8
22. Unit Capacity Factor (Using DER Net)	NA	49.1	76.0
23. Unit Forced Outage Rate	0	0	6.1

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Unit Two commenced its Fourth Refueling and Inspection Outage on March 9, 1991. Outage ended at 1723 hours May 8, 1991 when unit returned to service.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: May 8, 1991

26. Units In Test Status (Prior to Commercial Operation):

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



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April 1991

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 5/11/91  
 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
2	910309	S	719.0	C	1	NA	XX	ZZZ	Unit Two was manually shutdown for its planned fourth refuel and inspection outage (4RIO) commencing at 1800 hours March 8. Generator was taken off line at 0346 hours March 9. Unit was in planned outage status for entire month of April. Fourth fuel cycle officially ended at 1723 hours on May 8 when Unit Two's main generator was synchronized to the PJM grid. Outage length was 60 days, 22 hours.

<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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number, 50-388

Date: April 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.