

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9007200249    DOC. DATE: 90/06/30    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 Jun 1990 for Susquehanna Steam Electric Station. W/900716 ltr.

DISTRIBUTION CODE: IE24D    COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 10  
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**Pennsylvania Power & Light Company**

Two North Ninth Street • Allentown, PA 18101-1179 • 215/770-5151

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

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

JUL 16 1990

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-3410 FILE R41-2A**

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

Dear Mr. McDonald:

The June 1990 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

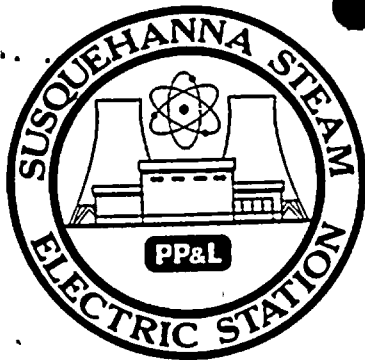
H. W. Keiser

Attachment

cc: Document Control Desk (original)  
NRC Region I  
Mr. G.S. Barber, NRC Resident Inspector  
Mr. M.C. Thadani, NRC Project Manager

9007200249 900630  
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TEBA  
11



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387  
UNIT One  
DATE 7-3-90  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

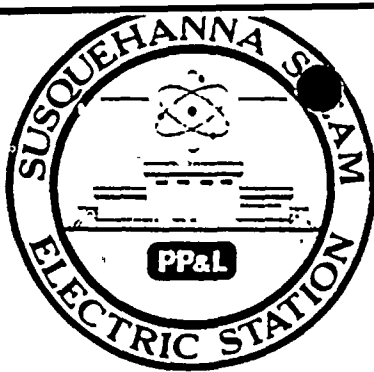
MONTH June 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1008</u>	17	<u>138</u>
2	<u>563</u>	18	<u>782</u>
3	<u>849</u>	19	<u>851</u>
4	<u>1031</u>	20	<u>1034</u>
5	<u>1042</u>	21	<u>1034</u>
6	<u>1032</u>	22	<u>1032</u>
7	<u>657</u>	23	<u>1032</u>
8	<u>0</u>	24	<u>1035</u>
9	<u>0</u>	25	<u>1039</u>
10	<u>0</u>	26	<u>1034</u>
11	<u>0</u>	27	<u>1027</u>
12	<u>0</u>	28	<u>1028</u>
13	<u>0</u>	29	<u>1020</u>
14	<u>0</u>	30	<u>1023</u>
15	<u>0</u>	31	<u>          </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. 50-387  
 DATE 7-3-90  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

OPERATING STATUS

- Unit One
1. Unit Name: Susquehanna Steam Electric Station
  2. Reporting Period: June 1990
  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): 1069.3
  7. Maximum Dependable Capacity (Net MWe): 1032.7
  8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:  
No changes were made

Notes

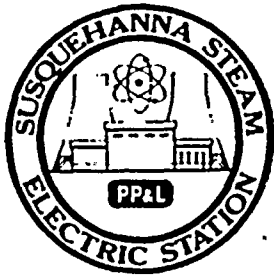
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	720	4343	61,920
12. Number Of Hours Reactor Was Critical	543.7	3960.9	47,495.2
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	491.8	3863.5	46,464.9
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,496,988	12,325,015	145,495,661
17. Gross Electrical Energy Generated (MWH)	480,662	4,043,022	47,500,862
18. Net Electrical Energy Generated (MWH)	459,267	3,895,186	45,609,858
19. Unit Service Factor	68.3	89.0	75.0
20. Unit Availability Factor	68.3	89.0	75.0
21. Unit Capacity Factor (Using MDC Net)	61.8	86.9	71.3
22. Unit Capacity Factor (Using DER Net)	60.8	85.4	70.2
23. Unit Forced Outage Rate	0	6.1	9.2

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Unit 1 is scheduled for its Fifth Refueling and Inspection Outage from 9-8-90 through 11-23-90.

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 1990

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 7-5-90  
 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	900601	S	0	B	5	NA	XX	ZZZ	Commencing at 2200 hours June 1 Unit One Reactor power level was reduced to as low as 40% for scheduled maintenance activities. Recirc MG set brush change outs were completed under single loop conditions. Control rod pattern adjustments were made and scram timing tests were completed. Unit One returned to 100% power level at 0600 hours June 4.

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

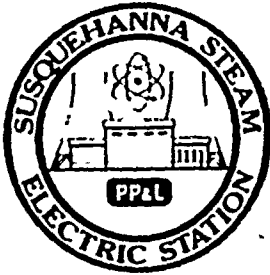
<sup>2</sup>  
 Reason:  
 A-Equipment Failure (Explain)  
 B-Maintenance of Test  
 C-Refueling  
 D-Regulatory Restriction  
 E-Operator Training & License Examination  
 F-Administrative  
 G-Operational Error (Explain)  
 H-Other (Explain)

<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 1990

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 7-5-90  
 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	900607	S	228.2	B	1	Unit 2 LER 388/90-006	BO	CLR	At 2128 hours June 7 Unit One was manually shutdown for scheduled maintenance activities. Lube oil coolers on all four RHR pump motors were replaced based upon concerns for common mode failure. Subsequent analysis of replaced components revealed that concern was not valid. Action was considered prudent based upon data available at the time decision was made. Detailed explanation is contained in LER 388/90-006. Unit returned to service at 0916 hours June 17.

<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



SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387      Date June 1990

Completed by K.A. Young      Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

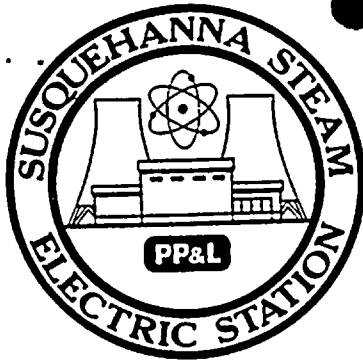
None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None



AVERAGE DAILY UNIT POWER LEVEL

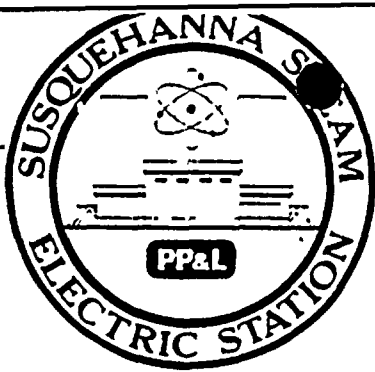
DOCKET NO. 50-388  
 UNIT Two  
 DATE 7-3-90  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

MONTH June 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	1032
2	0	18	1033
3	0	19	1038
4	0	20	1039
5	0	21	1037
6	0	22	1035
7	0	23	1035
8	0	24	1039
9	0	25	1041
10	0	26	1037
11	0	27	1033
12	0	28	1033
13	0	29	1028
14	255	30	1028
15	849	31	
16	971		

**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 7-3-90  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station <sup>Unit Two</sup>  
 2. Reporting Period: June 1990  
 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): 1074.6  
 7. Maximum Dependable Capacity (Net MWe): 1038.2  
 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:  
No changes were made.

Notes

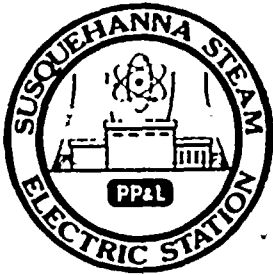
9. Power Level To Which Restricted, If Any (Net MWe): None  
 10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>4343</u>	<u>47,159</u>
12. Number Of Hours Reactor Was Critical	<u>421.7</u>	<u>3,803</u>	<u>38,468.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>401.9</u>	<u>3,763.9</u>	<u>37,659.2</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,283,225</u>	<u>12,230,406</u>	<u>119,038,381</u>
17. Gross Electrical Energy Generated (MWH)	<u>412,084</u>	<u>4,028,290</u>	<u>39,016,203</u>
18. Net Electrical Energy Generated (MWH)	<u>393,144</u>	<u>3,879,164</u>	<u>37,539,845</u>
19. Unit Service Factor	<u>55.8</u>	<u>86.7</u>	<u>79.9</u>
20. Unit Availability Factor	<u>55.8</u>	<u>86.7</u>	<u>79.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>52.6</u>	<u>86.0</u>	<u>76.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>52.0</u>	<u>85.1</u>	<u>75.8</u>
23. Unit Forced Outage Rate	<u>29.5</u>	<u>10.2</u>	<u>7.0</u>

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 1990

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 7-5-90  
 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
3	900528	F	168.0	A	4	388/90-006	JB	LI	Continuation of forced outage from previous month.
		S	150.1	B	4	388/90-006	BO	CLR	Management decisions was made to replace the lube oil coolers on all four RHR pump motors based upon a potential concern for common mode failure. Detailed explanation is contained in LER 90-006. Outage was converted to maintenance status at midnight June 7. Unit Two returned to service at 0605 hours June 14.

<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 June 1990

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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