



Pennsylvania Power & Light Company

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

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

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

APR 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-3381 FILE R41-2A

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

Dear Mr. McDonald:

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

Very truly yours,

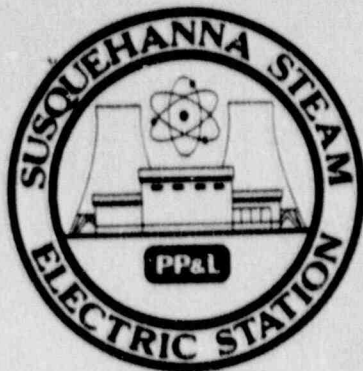
H. W. Keiser

Attachment

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

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PDR ADOCK 05000387
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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387

UNIT One

DATE 4-5-90

COMPLETED BY K.A. Young

TELEPHONE (717) 542-3251

MONTH March 1990

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

1	<u>1055</u>
2	<u>1044</u>
3	<u>1027</u>
4	<u>1043</u>
5	<u>1055</u>
6	<u>1055</u>
7	<u>1056</u>
8	<u>1055</u>
9	<u>1022</u>
10	<u>994</u>
11	<u>1046</u>
12	<u>1041</u>
13	<u>1038</u>
14	<u>1041</u>
15	<u>1041</u>
16	<u>1038</u>

DAY AVERAGE DAILY POWER LEVEL
(MWe-Net)

17	<u>1042</u>
18	<u>1052</u>
19	<u>1054</u>
20	<u>933</u>
21	<u>62</u>
22	<u>513</u>
23	<u>784</u>
24	<u>1056</u>
25	<u>1053</u>
26	<u>1055</u>
27	<u>1055</u>
28	<u>1054</u>
29	<u>1055</u>
30	<u>1019</u>
31	<u>775</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 4-5-90
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit One

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

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	2160	59,737
12. Number Of Hours Reactor Was Critical	744	1,954.2	45,488.5
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	732.3	1,908.7	44,510.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,289,647	6,015,736	139,186,382
17. Gross Electrical Energy Generated (MWH)	751,378	1,980,114	45,437,954
18. Net Electrical Energy Generated (MWH)	725,083	1,906,925	43,621,597
19. Unit Service Factor	98.4	88.4	74.5
20. Unit Availability Factor	98.4	88.4	74.5
21. Unit Capacity Factor (Using MDC Net)	94.4	85.5	70.7
22. Unit Capacity Factor (Using DER Net)	92.8	84.1	69.6
23. Unit Forced Outage Rate	1.6	11.6	9.6

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Unit One is scheduled for its Fifth Refueling and Inspection Outage from 9-8-90 through 11-23-90.

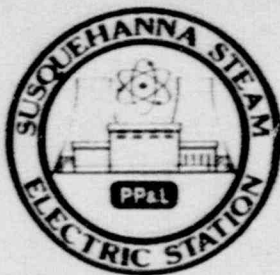
25. If Shut Down At End Of Report Period, Estimated Date of Startup:

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

Forecast

Achieved

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1990

DOCKET # 50-387
 UNIT NAME One
 DATE 4-5-90
 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
3	900321	F	11.7	B	1	N/A	FK	DISC	Unit One commenced manual shutdown at 1800 hours March 20 and opened main generator output breaker at 0603 hours March 21. Reactor remained critical at low power level during forced outage. Forced outage was required to make repairs to 230KV switchyard Generator #1 disconnects that were developing hot spots. Repairs were made and Unit synchronized to PJM grid at 1746 hours March 21. Power ascension was held at 60% level for 26 hours while condenser tube leaks were identified and repaired. Unit One reached 100% power at midnight March 23.

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



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1990

DOCKET NO. 50-387
 UNIT NAME One
 DATE 4-5-90
 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
4	900331	S	0.0	B	5	N/A	XX	ZZZ	Commencing at 2000 hours March 30, Unit One Reactor power was reduced to 60% for scheduled maintenance outage. Control rod sequence exchanger was completed and Unit returned to 100% power level at 0900 hours April 1.

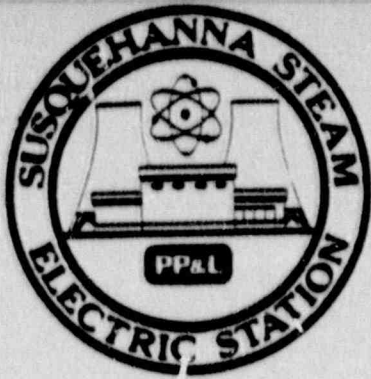
¹
 F- Forced
 S- Scheduled

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



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388
UNIT Two
DATE 4-5-90
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

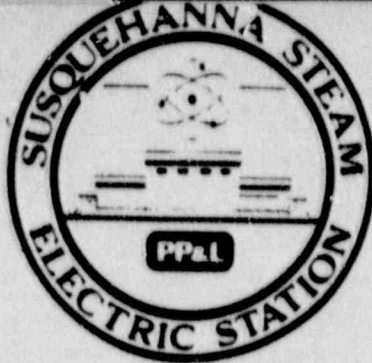
MONTH March 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1056</u>
2	<u>1056</u>
3	<u>1057</u>
4	<u>1058</u>
5	<u>1057</u>
6	<u>1058</u>
7	<u>1058</u>
8	<u>1058</u>
9	<u>1057</u>
10	<u>1055</u>
11	<u>1050</u>
12	<u>1046</u>
13	<u>1043</u>
14	<u>1043</u>
15	<u>1043</u>
16	<u>1041</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1047</u>
18	<u>1055</u>
19	<u>1056</u>
20	<u>1057</u>
21	<u>1057</u>
22	<u>1054</u>
23	<u>995</u>
24	<u>1002</u>
25	<u>1056</u>
26	<u>1056</u>
27	<u>1055</u>
28	<u>1056</u>
29	<u>1055</u>
30	<u>1055</u>
31	<u>1053</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 4-5-90
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit Two

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

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	2,160	44,976
12. Number Of Hours Reactor Was Critical	744	2,011.3	36,676.6
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	744	1,992	35,887.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,445,719	6,478,298	113,286,273
17. Gross Electrical Energy Generated (MWH)	808,952	2,142,798	37,130,711
18. Net Electrical Energy Generated (MWH)	781,057	2,064,821	35,725,502
19. Unit Service Factor	100	92.2	79.8
20. Unit Availability Factor	100	92.2	79.8
21. Unit Capacity Factor (Using MDC Net)	101.2	92.1	76.5
22. Unit Capacity Factor (Using DER Net)	100	91.0	75.7
23. Unit Forced Outage Rate	0	7.8	6.7

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 March 1990

DOCKET NO. 50-386
 UNIT NAME Two
 DATE 4-5-90
 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 this month.

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-9161)

⁵
 Exhibit I - Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date March 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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387

Date March, 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