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ACCESSION NBR:9104180288 DOC.DATE: 91/03/31 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 Mar 1991 for Susquehanna Units
1 & 2.W/910415 ltr.

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

NOTES:LPDR 1 cy Transcripts. 05000387
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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

APR 15 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-3562 FILE R41-2A

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

Dear Mr. McDonald:

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

Very truly yours,

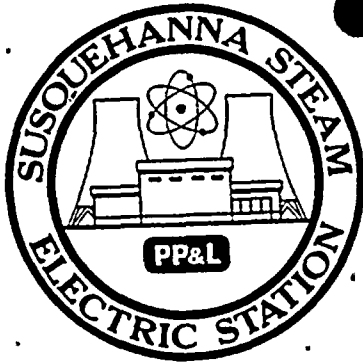
H. W. Keiser

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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AVERAGE DAILY UNIT POWER LEVEL

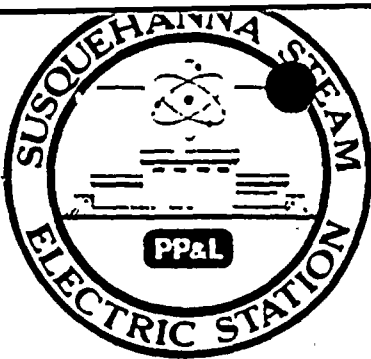
DOCKET NO. 50-387
 UNIT One
 DATE 4-11-91
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

MONTH March 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1052	17	1048
2	1044	18	1053
3	1044	19	1055
4	1050	20	1053
5	1053	21	1051
6	1050	22	1029
7	1051	23	835
8	1053	24	837
9	1050	25	992
10	1049	26	1055
11	1052	27	1048
12	1052	28	1009
13	1053	29	836
14	1053	30	839
15	993	31	837
16	758		

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 4/11/91
 COMPLETED BY K. A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit One

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

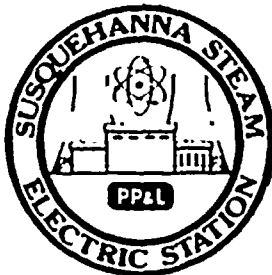
	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>2160</u>	<u>68,497</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>2160</u>	<u>52,463.4</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1,032</u>
14. Hours Generator On-Line	<u>744</u>	<u>2160</u>	<u>51,292.1</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,331,992</u>	<u>6,958,808</u>	<u>160,664,932</u>
17. Gross Electrical Energy Generated (MWH)	<u>771,310</u>	<u>2,308,832</u>	<u>52,462,452</u>
18. Net Electrical Energy Generated (MWH)	<u>744,874</u>	<u>2,228,670</u>	<u>50,379,345</u>
19. Unit Service Factor	<u>100</u>	<u>100</u>	<u>74.9</u>
20. Unit Availability Factor	<u>100</u>	<u>100</u>	<u>74.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>96.9</u>	<u>99.9</u>	<u>71.2</u>
22. Unit Capacity Factor (Using DER Net)	<u>95.4</u>	<u>98.3</u>	<u>70.1</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>8.5</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 March 1991

DOCKET NO. 50-387
 UNIT NAME One
 DATE 4-8-91
 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
2	910315	S	0.0	B	5	NA	XX	ZZZ	Commencing at 2020 hours March 15 Unit One reactor power was reduced to as low as 40% for a scheduled maintenance outage. Purpose of outage was a control rod sequence exchange. Other work activities included rod scram timing, M/G brush change out, MSIV stroke testing, and HCU valve packing adjustments. Unit returned to 100% power level 0500 hours March 17.

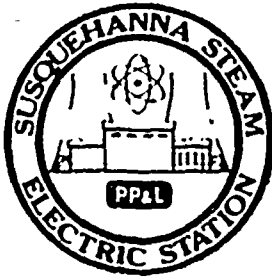
¹
 F: Forced
 S: Scheduled

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 1991

DOCKET NO. 50-387
 UNIT NAME One
 DATE 4-8-91
 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
3	910322	S	0.0	B	5	NA	SL	SEAL	Unit One reactor power was reduced to 80% at 2211 hours on March 22 to allow the "B" reactor feed pump to be taken out of service. A modification was installed to vent the feed pump secondary seal chamber. Seal chamber had been under vacuum and was suspected source of oil intrusion into the condensate demineralizer. Modification was completed and Unit returned to 100% power at noon March 25.

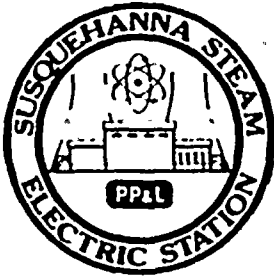
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 H-Other (Explain)

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UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH March 1991

DOCKET NO. 50-387
 UNIT NAME One
 DATE 4/11/91
 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
4	9103028	S	0.0	B	5	NA	SL	SEAL	Unit One reactor power was reduced to 80% at 2000 hours on March 28 to permit the B reactor feed pump to be taken out of service. Lube oil from this pump was leaking into the feedwater system and causing chemistry parameter excursions. Maintenance outage was scheduled to repair feedwater pump seal. Repairs were completed and unit returned to full power at 1500 hours April 4.

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)

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 Exhibit I - Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387

Date: March 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.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5800 S. UNIVERSITY AVENUE
CHICAGO, ILLINOIS 60637

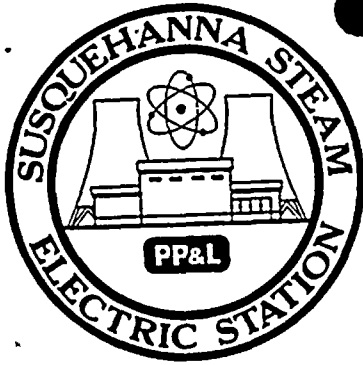
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DR. J. H. GOLDSTEIN

PHYSICS DEPARTMENT
5712 S. UNIVERSITY AVENUE
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AVERAGE DAILY UNIT POWER LEVEL

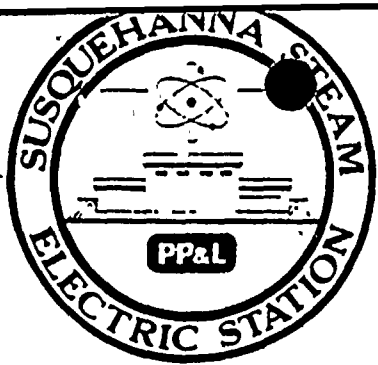
DOCKET NO. 50-388
 UNIT Two
 DATE 4/11/91
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

MONTH March 1991

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	973	17	0
2	962	18	0
3	959	19	0
4	961	20	0
5	960	21	0
6	953	22	0
7	953	23	0
8	815	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		

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 4/11/91
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit Two

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

Fuel depletion coastdown commenced February 12.

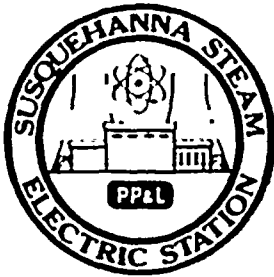
9. Power Level To Which Restricted, If Any (Net MWe): None.
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	2160	53,736
12. Number Of Hours Reactor Was Critical	210.4	1,536.7	44,399.4
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	194.5	1,489.7	43,529.5
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	577,865	4,732,149	137,825,613
17. Gross Electrical Energy Generated (MWH)	188,112	1,553,277	45,148,396
18. Net Electrical Energy Generated (MWH)	175,174	1,489,082	43,440,460
19. Unit Service Factor	26.1	69.0	81.0
20. Unit Availability Factor	26.1	69.0	81.0
21. Unit Capacity Factor (Using MDC Net)	22.7	66.4	77.8
22. Unit Capacity Factor (Using DER Net)	22.4	65.7	77.0
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. Scheduled outage length is eleven weeks.

25. If Shut Down At End Of Report Period, Estimated Date of Startup: May 24, 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 March 1991

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 4/11/91
 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
2	910309	S	549.5	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. Planned outage length is eleven weeks. Estimated return to service date is May 24, 1991.

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 Reason:
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 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
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SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388

Date: March 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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