

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8902240240 DOC. DATE: 89/01/31 NOTARIZED: NO DOCKET #  
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 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 Jan 1989 for Susquehanna Units 1  
 & 2. W/890215 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 10  
 TITLE: Monthly Operating Report (per Tech Specs)

NOTES: LPDR 1 cy Transcripts. 05000387/  
 LPDR 1 cy Transcripts. 05000388

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	NRR/DLPQ/PEB 11	1 1	NRR/DOEA/EAB 11	1 1
	NRR/DREP/RPB 10	1 1	NUDOCS-ABSTRACT	1 1
	REG-FILES 01	1 1	RGN1	1 1
EXTERNAL:	EG&G SIMPSON, F	1 1	EG&G WILLIAMS, S	1 1
	LPDR	1 1	NRC PDR	1 1
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NOTES:		2 2		

NOTE TO ALL "RIDS" RECIPIENTS:

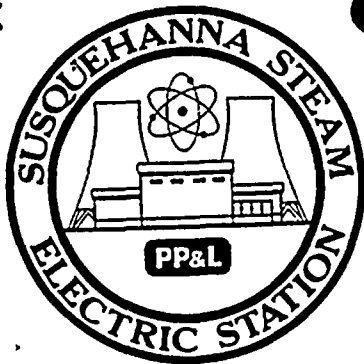
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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387  
UNIT One  
DATE 02/08/89  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

MONTH January, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1052</u>
2	<u>1051</u>
3	<u>1053</u>
4	<u>100</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</u>
15	<u>0</u>
16	<u>91</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>794</u>
18	<u>917</u>
19	<u>1051</u>
20	<u>1052</u>
21	<u>1053</u>
22	<u>1052</u>
23	<u>1051</u>
24	<u>1050</u>
25	<u>1052</u>
26	<u>1051</u>
27	<u>1053</u>
28	<u>1052</u>
29	<u>1039</u>
30	<u>1050</u>
31	<u>1052</u>

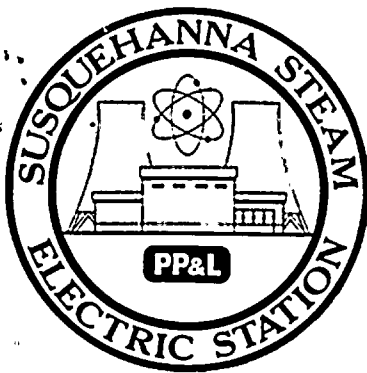
## INSTRUCTIONS

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.

(9/77)

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PDR ADOCK 05000387  
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# OPERATING DATA REPORT

DOCKET NO. 50-387  
 DATE 02/08/89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

## OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: January, 1989
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): 1068.5
7. Maximum Dependable Capacity (Net MWe): 1032

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	744	49,561
12. Number Of Hours Reactor Was Critical	482.5	482.5	37,424.3
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	449.0	449	36,602.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,416,106	1,416,106	114,019,617
17. Gross Electrical Energy Generated (MWH)	466,338	466,338	37,190,198
18. Net Electrical Energy Generated (MWH)	444,693	444,693	35,690,174
19. Unit Service Factor	60.4	60.4	73.8
20. Unit Availability Factor	60.4	60.4	73.8
21. Unit Capacity Factor (Using MDC Net)	57.9	57.9	69.8
22. Unit Capacity Factor (Using DER Net)	56.9	56.9	68.6
23. Unit Forced Outage Rate	39.7	39.7	10.2

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

Unit one is scheduled for a refueling outage on April 1, 1989. Duration of this outage plan is eleven weeks.

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

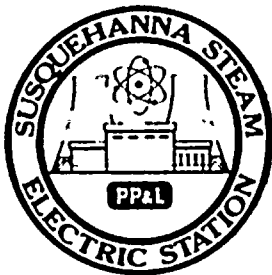
26. Units In Test Status (Prior to Commercial Operation):

Forecast

Achieved

INITIAL CRITICALITY  
 INITIAL ELECTRICITY  
 COMMERCIAL OPERATION

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# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 02/08/89  
 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
1	890104	F	191.6	G	3	89-001	ID	V	Unit reactor auto scrambled at 0235 hours on January 4, 1989. During routine valve alignment on instrument air supply system an operational error (valve inadvertently closed) was made that resulted in loss of air to cooling tower level instrumentation. Circulating water pumps tripped on false low level signal. Condenser vacuum degraded to turbine trip setpoint after 90 seconds and reactor subsequently tripped as per plant design. Seven day forced outage for staged maintenance activities was taken. Reactor was brought critical on January 11 and turbine synchronized to the grid at 0213 hours January 12, 1989.

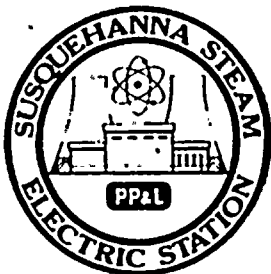
<sup>1</sup>  
 F: Forced  
 S: Scheduled

<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 January, 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 02/08/89  
 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	890112	F	103.4	G	3	89-002	SJ	V	Unit reactor auto scrambled at 0415 hours January 12, 1989. During normal power ascension an operational error was made in transferring from manual to automatic feedwater control. Induced feedwater transient raised vessel level to turbine trip setpoint. Feedwater transient also induced a cold water reactivity addition which raised reactor power above the 24 percent RPS trip bypass for turbine control valve fast closure. Unit was synchronized to the grid at 1140 hours January 16 and reached 100% power 1800 hours January 18, 1989.

<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)

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 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 02/08/89

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

100-100000

100-100000

100-100000

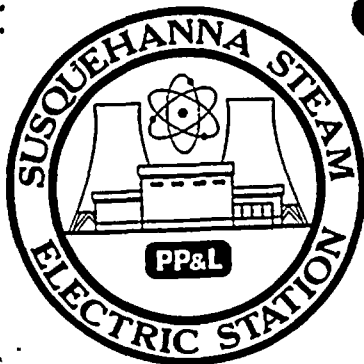
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# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388

UNIT Two

DATE 02/08/89

COMPLETED BY K.A. Young

TELEPHONE (717) 542-3251

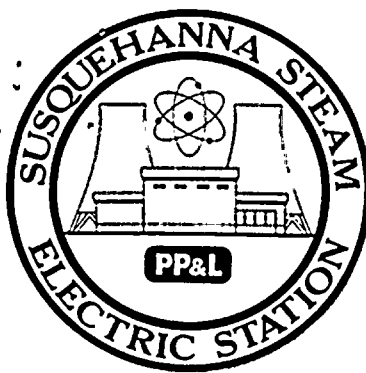
MONTH January, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1053</u>
2	<u>1055</u>
3	<u>1057</u>
4	<u>1058</u>
5	<u>1058</u>
6	<u>1056</u>
7	<u>1056</u>
8	<u>1053</u>
9	<u>1056</u>
10	<u>1056</u>
11	<u>1056</u>
12	<u>1056</u>
13	<u>1056</u>
14	<u>1056</u>
15	<u>1056</u>
16	<u>1056</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1056</u>
18	<u>1056</u>
19	<u>1056</u>
20	<u>948</u>
21	<u>591</u>
22	<u>1014</u>
23	<u>1058</u>
24	<u>1057</u>
25	<u>1057</u>
26	<u>1055</u>
27	<u>1056</u>
28	<u>1056</u>
29	<u>1055</u>
30	<u>1055</u>
31	<u>1055</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 02/08/89  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

## OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: January, 1989
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): 1074.3
7. Maximum Dependable Capacity (Net MWe): 1037.8
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	744	744	34,800
12. Number Of Hours Reactor Was Critical	744	744	28,492.9
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	744	744	27,892.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,407,250	2,407,250	87,782,853
17. Gross Electrical Energy Generated (MWH)	799,208	799,208	28,746,037
18. Net Electrical Energy Generated (MWH)	770,833	770,833	27,660,894
19. Unit Service Factor	100	100	80.1
20. Unit Availability Factor	100	100	80.1
21. Unit Capacity Factor (Using MDC Net)	99.8	99.8	76.6
22. Unit Capacity Factor (Using DER Net)	98.7	98.7	75.7
23. Unit Forced Outage Rate	0	0	7.5

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

Unit Two is not currently scheduled to shutdown within the next six months.

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

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

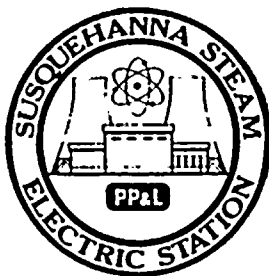
Forecast

Achieved

INITIAL CRITICALITY  
INITIAL ELECTRICITY  
COMMERCIAL OPERATION

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\_\_\_\_\_  
\_\_\_\_\_





# UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH January, 1989

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 02/08/89  
 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
1	890120	S	0	B	5	N/A	AA SB	ADJ SNB	Unit reactor power level was reduced to 38% commencing at 1900 hours on January 20, 1989. Maintenance outage major items included: Main Steam line snubber inspections and repairs, Recirc MG set brush change out, control rod scram timing, and control rod sequence exchange. Set work items were completed and reactor returned to 100% power level at 1200 hours January 22, 1989.

<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>  
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 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 02/08/89

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

100-100000

100-100000

100-100000



Pennsylvania Power & Light Company

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

FEB 15 1989

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

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

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-3149 FILE R41-2A

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

Dear Mr. McDonald:

The January 1989 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. F. I. Young - NRC Sr. Resident Inspector  
Mr. M. C. Thadani - NRC Project Manager

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1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

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4. The third part of the document is a list of names and addresses of the members of the committee.

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