

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9001250213 DOC. DATE: ~~89/12/31~~ 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 rept for Dec 1989 for Susquehanna Steam Electric Station. W/900115 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 11
TITLE: Monthly Operating Report (per Tech Specs)

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

	RECIPIENT		COPIES			RECIPIENT		COPIES	
	ID	CODE/NAME	LTTR	ENCL		ID	CODE/NAME	LTTR	ENCL
	PD1-2	LA	3	3	PD1-2	PD	1	1	
		THADANI, M	1	1					
INTERNAL:	ACRS		10	10	AEOD/DOA		1	1	
	AEOD/DSP/TPAB		1	1	IRM TECH ADV		2	2	
	NRR/DLPQ/LPEB10		1	1	NRR/DOEA/OEAB11		1	1	
	NRR/DREP/PRPB11		1	1	NUDOCS-ABSTRACT		1	1	
	REG FILE 01		1	1	RGN1		1	1	
EXTERNAL:	EG&G SIMPSON, F		1	1	LPDR		1	1	
	NRC PDR		1	1	NSIC		1	1	
NOTES:			2	2					

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 31 ENCL 31

no. Rpt



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

JAN 15 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-3327 FILE R41-2A

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

Dear Mr. McDonald:

The December 1989 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

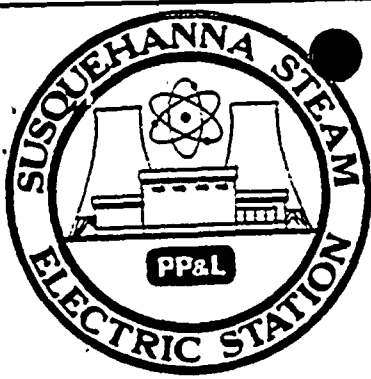
Very truly yours,

H. W. Keiser

Attachment

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

9001250213 891231
PDR ADOCK 05000387
R PDC



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE 1-8-90
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

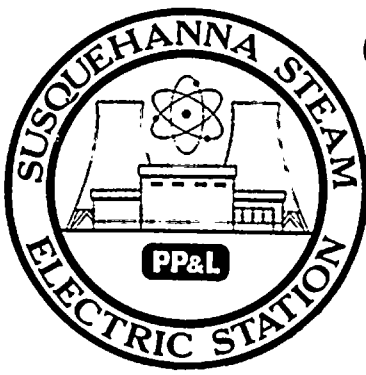
MONTH December, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1028</u>
2	<u>757</u>
3	<u>1053</u>
4	<u>1054</u>
5	<u>1054</u>
6	<u>1054</u>
7	<u>1055</u>
8	<u>1055</u>
9	<u>1054</u>
10	<u>1052</u>
11	<u>1053</u>
12	<u>1053</u>
13	<u>1053</u>
14	<u>1053</u>
15	<u>1053</u>
16	<u>1054</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1052</u>
18	<u>1053</u>
19	<u>1053</u>
20	<u>1053</u>
21	<u>1054</u>
22	<u>1054</u>
23	<u>1054</u>
24	<u>355</u>
25	<u>18</u>
26	<u>697</u>
27	<u>966</u>
28	<u>1052</u>
29	<u>1053</u>
30	<u>1051</u>
31	<u>1050</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 1-8-90
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

- Unit One
1. Unit Name: Susquehanna Steam Electric Station
 2. Reporting Period: December 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): 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.

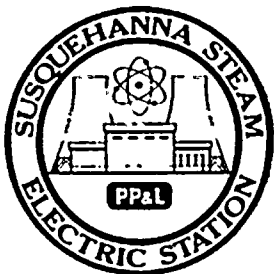
9. Power Level To Which Restricted, If Any (Net MWe): none
 10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	8760	57,577
12. Number Of Hours Reactor Was Critical	722.2	6592.5	43,534.3
13. Reactor Reserve Shutdown Hours	0	0	1032
14. Hours Generator On-Line	709.4	6,448.1	42,601.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,285,799	20,567,135	133,170,646
17. Gross Electrical Energy Generated (MWH)	751,078	6,733,980	43,457,840
18. Net Electrical Energy Generated (MWH)	723,577	6,469,191	41,714,672
19. Unit Service Factor	95.4	73.6	74.0
20. Unit Availability Factor	95.4	73.6	74.0
21. Unit Capacity Factor (Using MDC Net)	94.2	71.5	70.2
22. Unit Capacity Factor (Using DER Net)	92.6	70.3	69.0
23. Unit Forced Outage Rate	4.7	8.3	9.5

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 December 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 1-9-90
 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
14	891201	S	0.0	B	5	N/A	ZZ	ZZZ	Commencing at 2200 hours December 1, Unit one reactor power was reduced to 45% for scheduled maintenance outage. Control rod sequence exchange was completed and reactor returned to 100% power level at 0210 hours December 3.

¹
 F: Forced
 S: Scheduled

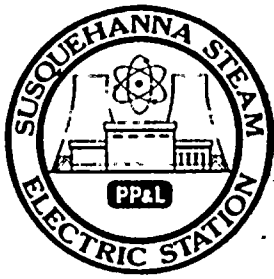
²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

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





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 1-9-90
 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
15	891224	F	34.6	H	3	89-027	JC	ZZZ	At 0823 hours December 24, Unit One Reactor experienced an auto scram from 100% power level. Auto scram was initiated by main generator load reject caused by loss of the 230KV Switchyard. An automobile accident caused loss of normal power to the 230KV Switchyard and the Switchyard Standby Generator failed to pickup the loads. Unit One shutdown systems operated per design. No Emergency Core Cooling Systems actuated and none were required. Repairs were completed on power supplies to the 230KV Switchyard. Unit was synchronized to PJM grid at 1902 hours December 25 and returned to 100% power at 2200 hours December 27.

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 01-08-90

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

Challenges to Main Steam Safety Relief Valves

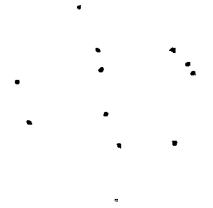
Unit One experienced an auto scram on generator load reject at 0823 hours December 24, 1989. Vessel pressure transient as result of scram caused: PSV141F13A to open at 1071 psig for 10 sec. and close at 967 psig; PSV141F13E to open at 1071 psig for 8 sec. and close at 985 psig. SRV (B&E) Functioned per design with solenoid signal opening them for pressure relief. Both valves properly reseated upon closing. Tailpipe temperatures after unit startup are within normal reading range.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

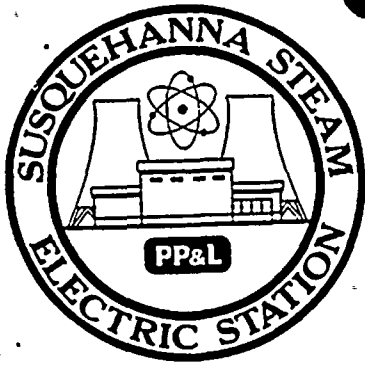
None.



113
21
4

•
•

1 1 1 1 1 1 1 1 1 1
4 4 4 4 4 4 4 4 4 4
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1



AVERAGE DAILY UNIT POWER LEVEL

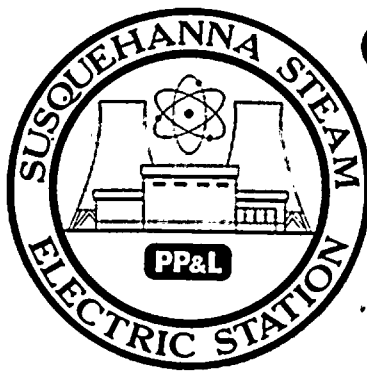
DOCKET NO. 50-388
UNIT Two
DATE 1-8-90
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH December, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1057</u>	17	<u>1046</u>
2	<u>1058</u>	18	<u>1057</u>
3	<u>1056</u>	19	<u>1058</u>
4	<u>1059</u>	20	<u>1057</u>
5	<u>1058</u>	21	<u>1058</u>
6	<u>1055</u>	22	<u>1057</u>
7	<u>1057</u>	23	<u>1058</u>
8	<u>1014</u>	24	<u>1056</u>
9	<u>861</u>	25	<u>1058</u>
10	<u>1056</u>	26	<u>1058</u>
11	<u>1056</u>	27	<u>1057</u>
12	<u>1057</u>	28	<u>1056</u>
13	<u>1058</u>	29	<u>1058</u>
14	<u>1059</u>	30	<u>1057</u>
15	<u>1059</u>	31	<u>1056</u>
16	<u>766</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 1-9-89
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: December 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): 1074.6
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>744</u>	<u>8760</u>	<u>42,816</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>6,916.4</u>	<u>34,665.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>744</u>	<u>6,747.2</u>	<u>33,895.3</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,415,426</u>	<u>21,432,372</u>	<u>106,807,975</u>
17. Gross Electrical Energy Generated (MWH)	<u>801,874</u>	<u>7,041,084</u>	<u>34,987,913</u>
18. Net Electrical Energy Generated (MWH)	<u>773,564</u>	<u>6,770,620</u>	<u>33,660,681</u>
19. Unit Service Factor	<u>100</u>	<u>77.0</u>	<u>79.2</u>
20. Unit Availability Factor	<u>100</u>	<u>77.0</u>	<u>79.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.2</u>	<u>74.5</u>	<u>75.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.0</u>	<u>73.6</u>	<u>74.9</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>2.0</u>	<u>6.6</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	_____	_____



11
12
13

14
15
16

17

18

19

20
21

22

23

24

25

26

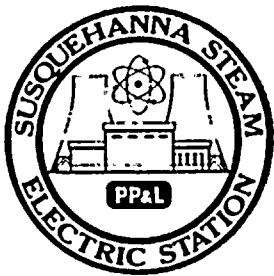
27

28

29

30

31



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December, 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 1-8-90
 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
12	891208	S	0	B	5	N/A	XX	ZZZ	Unit Two commenced power reduction at 2100 hours December 8 for scheduled testing. Neutron noise baseline stability testing and single loop recirculation flow baseline data acquisition were completed. Unit returned to full power at 2000 hours December 9.

¹
 F: Forced
 S: Scheduled

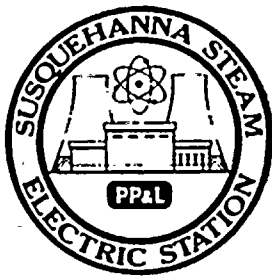
²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

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 December 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 1-9-90
 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
13	891216	F	0	B	5	N/A	SG	TBG	At 0230 hours December 16, Unit Two commenced a power reduction to 60% level for condenser tube leak investigation and repair. Repairs were made to "D" waterbox condenser tubes. Unit returned to 100% power level at 0600 hours December 17.

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



11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 01-08-90

Completed by K.A. Young Telephone (717) 542-2151

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Water Treatment Systems

None



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

JAN 15 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-3327 FILE R41-2A

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

Dear Mr. McDonald:

The December 1989 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

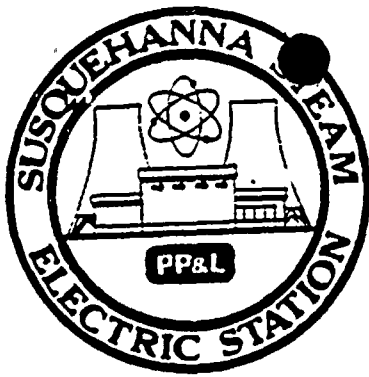

H. W. Keiser

Attachment

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

~~900725015~~ 1100

Mo. Rpt.
IE24
11



AVERAGE DAILY UNIT POWER LEVEL

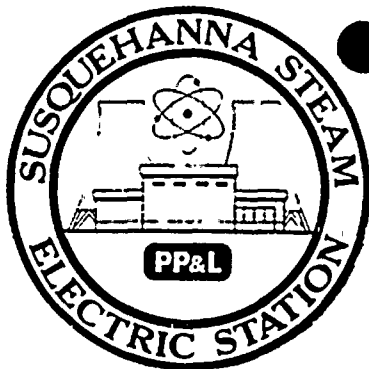
DOCKET NO. 50-387
UNIT One
DATE 1-8-90
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH December, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>1028</u>	17	<u>1052</u>
2	<u>757</u>	18	<u>1053</u>
3	<u>1053</u>	19	<u>1053</u>
4	<u>1054</u>	20	<u>1053</u>
5	<u>1054</u>	21	<u>1054</u>
6	<u>1054</u>	22	<u>1054</u>
7	<u>1055</u>	23	<u>1054</u>
8	<u>1055</u>	24	<u>355</u>
9	<u>1054</u>	25	<u>18</u>
10	<u>1052</u>	26	<u>697</u>
11	<u>1053</u>	27	<u>966</u>
12	<u>1053</u>	28	<u>1052</u>
13	<u>1053</u>	29	<u>1053</u>
14	<u>1053</u>	30	<u>1051</u>
15	<u>1053</u>	31	<u>1050</u>
16	<u>1054</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 1-8-90
 COMPLETED BY K. A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

- Unit One
1. Unit Name: Susquehanna Steam Electric Station
 2. Reporting Period: December 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): 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

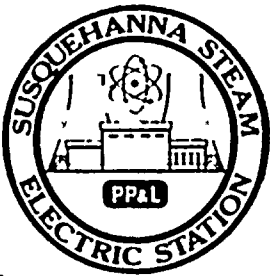
9. Power Level To Which Restricted, If Any (Net MWe): none
10. Reasons For Restrictions, If Any: N/A

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	744	8760	57,577
12. Number Of Hours Reactor Was Critical	722.2	6592.5	43,534.3
13. Reactor Reserve Shutdown Hours	0	0	1032
14. Hours Generator On-Line	709.4	6,448.1	42,601.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	2,285,799	20,567,135	133,170,646
17. Gross Electrical Energy Generated (MWH)	751,078	6,733,980	43,457,840
18. Net Electrical Energy Generated (MWH)	723,577	6,469,191	41,714,672
19. Unit Service Factor	95.4	73.6	74.0
20. Unit Availability Factor	95.4	73.6	74.0
21. Unit Capacity Factor (Using MDC Net)	94.2	71.5	70.2
22. Unit Capacity Factor (Using DER Net)	92.6	70.3	69.0
23. Unit Forced Outage Rate	4.7	8.3	9.5

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 December 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 1-9-90
 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
14	891201	S	0.0	B	5	N/A	ZZ	ZZZ	Commencing at 2200 hours December 1, Unit one reactor power was reduced to 45% for scheduled maintenance outage. Control rod sequence exchange was completed and reactor returned to 100% power level at 0210 hours December 3.

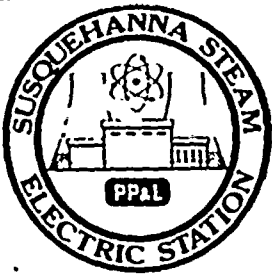
¹
 F: Forced
 S: Scheduled

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 License
 Event Report (LER) File (NUREG-
 0161)

⁵
 Exhibit I - Same Source



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1989

DOCKET NO. 50-387
 UNIT NAME One
 DATE 1-9-90
 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
15	891224	F	34.6	H	3	89-027	JC	ZZZ	At 0823 hours December 24, Unit One Reactor experienced an auto scram from 100% power level. Auto scram was initiated by main generator load reject caused by loss of the 230KV Switchyard. An automobile accident caused loss of normal power to the 230KV Switchyard and the Switchyard Standby Generator failed to pickup the loads. Unit One shutdown systems operated per design. No Emergency Core Cooling Systems actuated and none were required. Repairs were completed on power supplies to the 230KV Switchyard. Unit was synchronized to PJM grid at 1902 hours December 25 and returned to 100% power at 2200 hours December 27.

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 01-08-90

Completed By: K. A. Young

Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

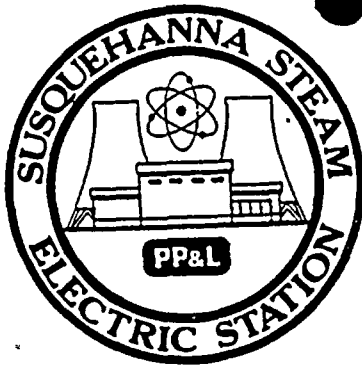
Unit One experienced an auto scram on generator load reject at 0823 hours December 24, 1989. Vessel pressure transient as result of scram caused: PSV141F13A to open at 1071 psig for 10 sec. and close at 967 psig; PSV141F13E to open at 1071 psig for 8 sec. and close at 985 psig. SRV (B&E) Functioned per design with solenoid signal opening them for pressure relief. Both valves properly reseated upon closing. Tailpipe temperatures after unit startup are within normal reading range.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.



AVERAGE DAILY UNIT POWER LEVEL

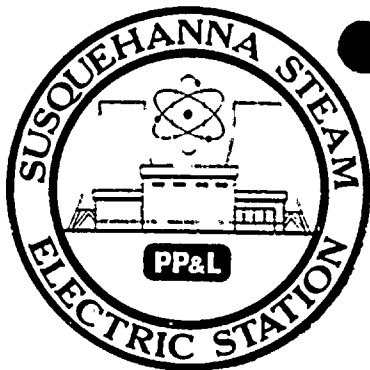
DOCKET NO. 50-388
 UNIT Two
 DATE 1-8-90
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

MONTH December, 1989

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1057	17	1046
2	1058	18	1057
3	1056	19	1058
4	1059	20	1057
5	1058	21	1058
6	1055	22	1057
7	1057	23	1058
8	1014	24	1056
9	861	25	1058
10	1056	26	1058
11	1056	27	1057
12	1057	28	1056
13	1058	29	1058
14	1059	30	1057
15	1059	31	1056
16	766		

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 1-9-89
 COMPLETED BY K.A. Young
 TELEPHONE (717) 542-3251

OPERATING STATUS

Unit Two

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: December 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): 1074.6
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.

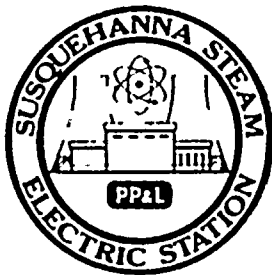
Notes

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>744</u>	<u>8760</u>	<u>42,816</u>
12. Number Of Hours Reactor Was Critical	<u>744</u>	<u>6,916.4</u>	<u>34,665.3</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>744</u>	<u>6,747.2</u>	<u>33,895.3</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,415,426</u>	<u>21,432,372</u>	<u>106,807,975</u>
17. Gross Electrical Energy Generated (MWH)	<u>801,874</u>	<u>7,041,084</u>	<u>34,987,913</u>
18. Net Electrical Energy Generated (MWH)	<u>773,564</u>	<u>6,770,620</u>	<u>33,660,681</u>
19. Unit Service Factor	<u>100</u>	<u>77.0</u>	<u>79.2</u>
20. Unit Availability Factor	<u>100</u>	<u>77.0</u>	<u>79.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>100.2</u>	<u>74.5</u>	<u>75.7</u>
22. Unit Capacity Factor (Using DER Net)	<u>99.0</u>	<u>73.6</u>	<u>74.9</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>2.0</u>	<u>6.6</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None scheduled.</u>			

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 December, 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 1-8-90
 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
12	891208	S	0	B	5	N/A	XX	ZZZ	Unit Two commenced power reduction at 2100 hours December 8 for scheduled testing. Neutron noise baseline stability testing and single loop recirculation flow baseline data acquisition were completed. Unit returned to full power at 2000 hours December 9.

¹
 F: Forced
 S: Scheduled

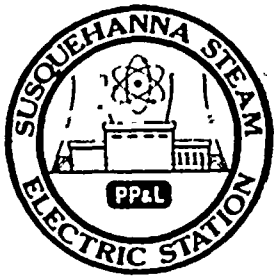
²
 Reason:
 A-Equipment Failure (Explain)
 B-Maintenance of Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training & License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

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





UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1989

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 1-9-90
 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
13	891216	F	0	B	5	N/A	SG	TBG	At 0230 hours December 16, Unit Two commenced a power reduction to 60% level for condenser tube leak investigation and repair. Repairs were made to "D" waterbox condenser tubes. Unit returned to 100% power level at 0600 hours December 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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 01-08-90

Completed by K.A. Young , Telephone (717) 542-2151

Challenges to Main Steam Safety Relief Valves

None

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Water Treatment Systems

None