

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

| | RECIPIENT ID CODE/NAME | COPIES LTTR | ENCL | RECIPIENT ID CODE/NAME | COPIES LTTR | ENCL |
|-----------|-------------------------|-------------|------|------------------------|-------------|------|
| | PD1-2 LA | 1 | 0 | PD1-2 PD | 5 | 5 |
| | THADANI, M | 1 | 0 | | | |
| INTERNAL: | ACRS | 10 | 10 | AEOD/DOA | 1 | 1 |
| | AEOD/DSP/TPAB | 1 | 1 | ARM TECH ADV | 2 | 2 |
| | 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 |
| | NSIC | 1 | 1 | | | |
| NOTES: | | 2 | 2 | | | |

NOTE TO ALL "RIDS" RECIPIENTS:

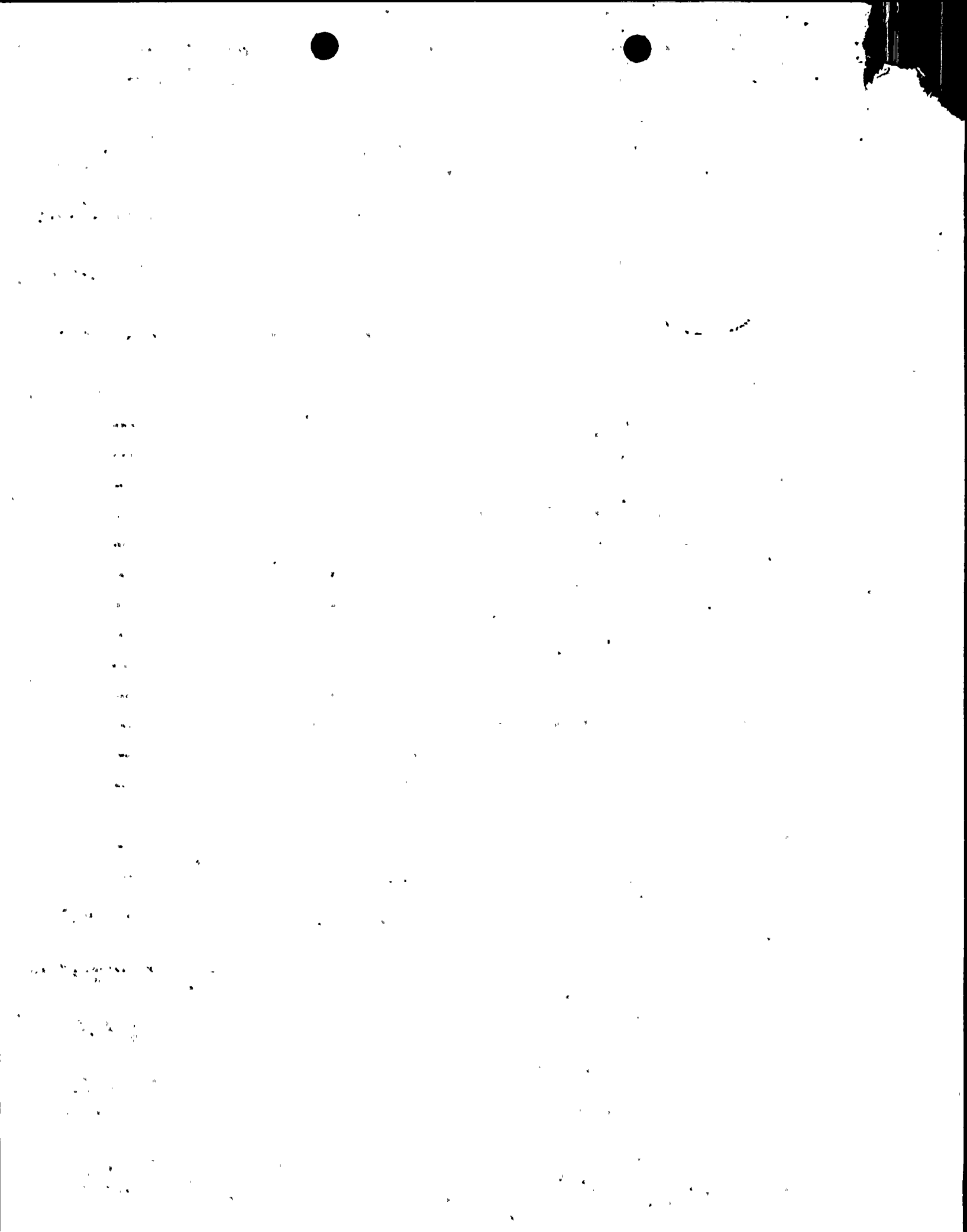
PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

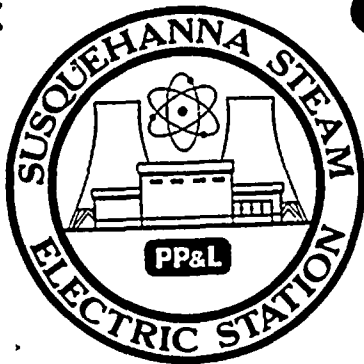
TOTAL NUMBER OF COPIES REQUIRED: LTTR 34 ENCL 32

R
I
D
S
/
A
D
D
S

R
I
D
S
/
A
D
D
S

M
E
S





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) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | <u>1052</u> | 17 | <u>794</u> |
| 2 | <u>1051</u> | 18 | <u>917</u> |
| 3 | <u>1053</u> | 19 | <u>1051</u> |
| 4 | <u>100</u> | 20 | <u>1052</u> |
| 5 | <u>0</u> | 21 | <u>1053</u> |
| 6 | <u>0</u> | 22 | <u>1052</u> |
| 7 | <u>0</u> | 23 | <u>1051</u> |
| 8 | <u>0</u> | 24 | <u>1050</u> |
| 9 | <u>0</u> | 25 | <u>1052</u> |
| 10 | <u>0</u> | 26 | <u>1051</u> |
| 11 | <u>0</u> | 27 | <u>1053</u> |
| 12 | <u>0</u> | 28 | <u>1052</u> |
| 13 | <u>0</u> | 29 | <u>1039</u> |
| 14 | <u>0</u> | 30 | <u>1050</u> |
| 15 | <u>0</u> | 31 | <u>1052</u> |
| 16 | <u>91</u> | | |

INSTRUCTIONS

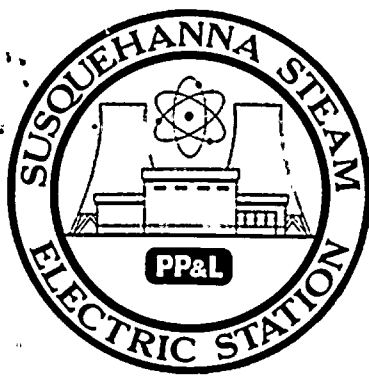
On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

(9/77)

8902240240 890131
 PDR ADOCK 05000387
 R PIC

JEK
 //

10



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
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
No changes were made.

Notes

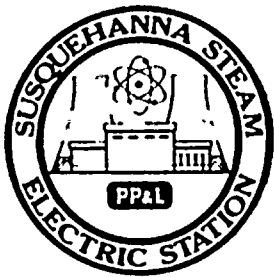
9. Power Level To Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

| | This Month | Yr.-to-Date | Cumulative |
|---|------------|-------------|-------------|
| 11. Hours In Reporting Period | 744 | 744 | 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 | _____ | _____ |



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 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 |
|-----|--------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| 1 | 890104 | F | 191.6 | G | 3 | 89-001 | ID | V | Unit reactor auto scrammed 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. |

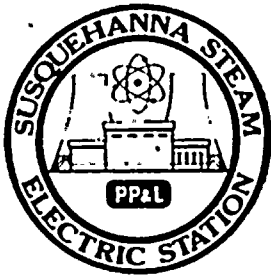
¹
 F: Forced
 S: Scheduled

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 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 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 | 890112 | F | 103.4 | G | 3 | 89-002 | SJ | V | Unit reactor auto scrammed 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. |

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 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

100-100000-100000

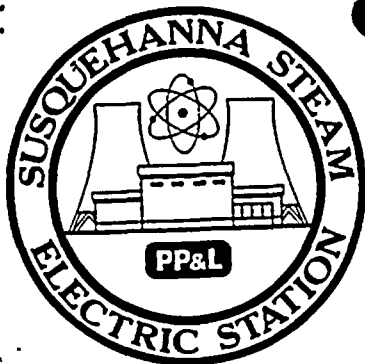
100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000

100-100000-100000



AVERAGE DAILY UNIT POWER LEVEL

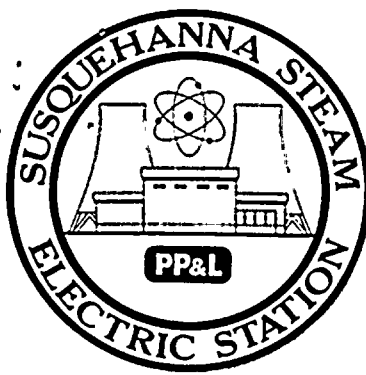
DOCKET NO. 50-388
UNIT Two
DATE 02/08/89
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH January, 1989

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|-----|--|-----|--|
| 1 | <u>1053</u> | 17 | <u>1056</u> |
| 2 | <u>1055</u> | 18 | <u>1056</u> |
| 3 | <u>1057</u> | 19 | <u>1056</u> |
| 4 | <u>1058</u> | 20 | <u>948</u> |
| 5 | <u>1058</u> | 21 | <u>591</u> |
| 6 | <u>1056</u> | 22 | <u>1014</u> |
| 7 | <u>1056</u> | 23 | <u>1058</u> |
| 8 | <u>1053</u> | 24 | <u>1057</u> |
| 9 | <u>1056</u> | 25 | <u>1057</u> |
| 10 | <u>1056</u> | 26 | <u>1055</u> |
| 11 | <u>1056</u> | 27 | <u>1056</u> |
| 12 | <u>1056</u> | 28 | <u>1056</u> |
| 13 | <u>1056</u> | 29 | <u>1055</u> |
| 14 | <u>1056</u> | 30 | <u>1055</u> |
| 15 | <u>1056</u> | 31 | <u>1055</u> |
| 16 | <u>1056</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.

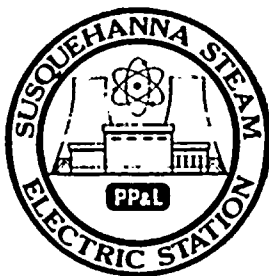
25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

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

| | Forecast | Achieved |
|----------------------|----------|----------|
| INITIAL CRITICALITY | _____ | _____ |
| INITIAL ELECTRICITY | _____ | _____ |
| COMMERCIAL OPERATION | _____ | _____ |



Small, illegible marks or characters in the top right corner.



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 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 |
|-----|--------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| 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. |

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



11-11-11

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



SECRET

CONFIDENTIAL

SECRET



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

IFRA
||

1942

1943

1944

1945

1946

1947

1948

1949

1950

1951

1952

1953

1954

1955