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FACIL:50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
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KEISER,W.H. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION

MCDONALD,W.G. Office of Information Resources Management (Post 890205)

SUBJECT: Monthly operating repts for Dec 1990 for Susquehanna Steam Electric Station,Units 1 & 2.W/910115 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 9
TITLE: Monthly Operating Report (per Tech Specs)

NOTES:LPDR 1 cy Transcripts. 05000387
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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

JAN 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-3506 FILE R41-2A**

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

Dear Mr. McDonald:

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

Very truly yours,

H. W. Keiser/arb

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



IE24
1/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE 1-8-91
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH December 1990

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|---|---|---|---|
| 1 | 890 | 17 | 1057 |
| 2 | 26 | 18 | 1056 |
| 3 | 0 | 19 | 1054 |
| 4 | 0 | 20 | 1055 |
| 5 | 0 | 21 | 1052 |
| 6 | 0 | 22 | 1048 |
| 7 | 191 | 23 | 1047 |
| 8 | 889 | 24 | 970 |
| 9 | 975 | 25 | 1055 |
| 10 | 1055 | 26 | 1054 |
| 11 | 1052 | 27 | 1054 |
| 12 | 920 | 28 | 1053 |
| 13 | 946 | 29 | 1053 |
| 14 | 1025 | 30 | 1051 |
| 15 | 1054 | 31 | 1055 |
| 16 | 1052 | | |

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)

SUSQUEHANNA STEAM ELECTRIC STATION

PP&L

# OPERATING DATA REPORT

DOCKET NO. 50-387
DATE 1-8-91
COMPLETED BY K.A. Young
TELEPHONE (717)542-3251

## OPERATING STATUS

1. Unit Name: Unit One Susquehanna Steam Electric Station
2. Reporting Period: December 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): 1069.6
7. Maximum Dependable Capacity (Net MWe): 1033.1

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 | 66,337 |
| 12. Number Of Hours Reactor Was Critical | 647.2 | 6769.1 | 50,303.4 |
| 13. Reactor Reserve Shutdown Hours | 0 | 0 | 1,032 |
| 14. Hours Generator On-Line | 617.3 | 6530.7 | 49,132.1 |
| 15. Unit Reserve Shutdown Hours | 0 | 0 | 0 |
| 16. Gross Thermal Energy Generated (MWH) | 1,936,994 | 20,535,478 | 153,706,124 |
| 17. Gross Electrical Energy Generated (MWH) | 642,026 | 6,695,780 | 50,153,620 |
| 18. Net Electrical Energy Generated (MWH) | 617,700 | 6,436,003 | 48,150,675 |
| 19. Unit Service Factor | 83.0 | 74.6 | 74.1 |
| 20. Unit Availability Factor | 83.0 | 74.6 | 74.1 |
| 21. Unit Capacity Factor (Using MDC Net) | 80.4 | 71.1 | 70.3 |
| 22. Unit Capacity Factor (Using DER Net) | 79.1 | 70.0 | 69.1 |
| 23. Unit Forced Outage Rate | 0 | 4.3 | 8.8 |

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 | | |

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION
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## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1990

DOCKET NO. 50-387
UNIT NAME One
DATE 1-8-91
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 |
|---|---|---|---|---|---|---|---|---|---|
| 12 | 901202 | S | 126.7 | B | 1 | None | TG | FCV | Unit One was manually shutdown at 430 hours December 2 for a scheduled maintenance outage. Maintenance items included an EHC leak at the #1 bypass valve that could not be repaired at power, and "A" reactor recirculation pump first stage seal with indications of improper staging. Repairs were made in accordance with work plan schedule. Unit returned to service at 1114 hours December 7. |

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

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date: December 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

PP&L

# AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388

UNIT Two

DATE 1-8-91

COMPLETED BY K.A. Young

TELEPHONE (717) 542-3251

MONTH December 1990

| DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL (MWe-Net) |
|---|---|---|---|
| 1 | 1051 | 17 | 439 |
| 2 | 1048 | 18 | 955 |
| 3 | 1046 | 19 | 1049 |
| 4 | 1044 | 20 | 1052 |
| 5 | 1040 | 21 | 1046 |
| 6 | 1049 | 22 | 1043 |
| 7 | 1050 | 23 | 1041 |
| 8 | 1051 | 24 | 947 |
| 9 | 1048 | 25 | 1053 |
| 10 | 1047 | 26 | 1051 |
| 11 | 1052 | 27 | 1050 |
| 12 | 1050 | 28 | 1050 |
| 13 | 1048 | 29 | 1041 |
| 14 | 1027 | 30 | 1037 |
| 15 | 50 | 31 | 1051 |
| 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.

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION
PP&L

# OPERATING DATA REPORT

DOCKET NO. 50-388
DATE 1-8-91
COMPLETED BY K.A. Young
TELEPHONE (717)542-3251

## OPERATING STATUS

1. Unit Name: Unit Two Susquehanna Steam Electric Station
2. Reporting Period: December 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): 1075.5
7. Maximum Dependable Capacity (Net MWe): 1039.0

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 | 51,576 |
| 12. Number Of Hours Reactor Was Critical | 721.5 | 8197.5 | 42,862.8 |
| 13. Reactor Reserve Shutdown Hours | 0 | 0 | 717.9 |
| 14. Hours Generator On-Line | 707.6 | 8144.5 | 42,039.8 |
| 15. Unit Reserve Shutdown Hours | 0 | 0 | 0 |
| 16. Gross Thermal Energy Generated (MWH) | 2,253,605 | 26,285,489 | 133,093,464 |
| 17. Gross Electrical Energy Generated (MWH) | 737,796 | 8,607,206 | 43,595,119 |
| 18. Net Electrical Energy Generated (MWH) | 710,424 | 8,290,697 | 41,951,378 |
| 19. Unit Service Factor | 95.1 | 93.0 | 81.5 |
| 20. Unit Availability Factor | 95.1 | 93.0 | 81.5 |
| 21. Unit Capacity Factor (Using MDC Net) | 91.9 | 91.1 | 78.3 |
| 22. Unit Capacity Factor (Using DER Net) | 90.9 | 90.1 | 77.5 |
| 23. Unit Forced Outage Rate | 0 | 5.0 | 6.3 |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit Two is scheduled for its Fourth Refueling and Inspection Outage from March 9, 1991 through May 24, 1991.

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 | | |

SUSQUEHANNA STEAM ELECTRIC STATION
PP&L

## UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH December 1990

DOCKET NO. 50-388
UNIT NAME Two
DATE 1-8-91
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 |
|---|---|---|---|---|---|---|---|---|---|
| 8 | 901215 | S | 36.4 | B | 1 | None | AD | P | Unit Two shutdown at 0835 hours on December 15 for a scheduled maintenance outage. The "B" reactor recirculation pump motor bearing oil reservoir had a low level indication. Containment entry was made to add oil to reservoir. Determination was made based on extrapolating historical operating data that unit would be able to run to scheduled refueling outage March 9, 1991. Unit returned to service at 2100 hours December 16. |

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

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date: December 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.