





Pennsylvania Power & Light Company

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

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

Submitted pursuant to  
Technical Specifications  
Section 6.9.1.6

SEP 15 1989

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-3260 FILE R41-2A

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

Dear Mr. McDonald:

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

Very truly yours,

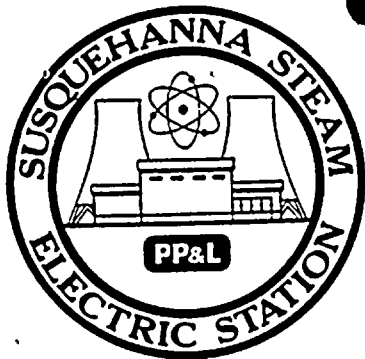
H. W. Keiser

Attachment

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

IE24  
11

8909200261 890831  
PDR ADOCK 05000387  
R PDC



AVERAGE DAILY UNIT POWER LEVEL

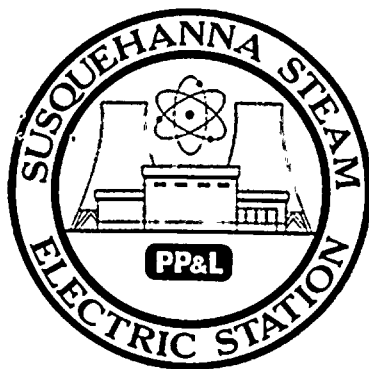
DOCKET NO. 50-387  
UNIT One  
DATE 9-5-89  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

MONTH August 1989

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|-----|--|
| 1   | <u>1041</u>                            | 17  | <u>1039</u>                            |
| 2   | <u>1039</u>                            | 18  | <u>1042</u>                            |
| 3   | <u>1033</u>                            | 19  | <u>1041</u>                            |
| 4   | <u>997</u>                             | 20  | <u>1037</u>                            |
| 5   | <u>868</u>                             | 21  | <u>1034</u>                            |
| 6   | <u>1030</u>                            | 22  | <u>1037</u>                            |
| 7   | <u>1042</u>                            | 23  | <u>1034</u>                            |
| 8   | <u>1050</u>                            | 24  | <u>1043</u>                            |
| 9   | <u>1048</u>                            | 25  | <u>1047</u>                            |
| 10  | <u>1045</u>                            | 26  | <u>1046</u>                            |
| 11  | <u>1044</u>                            | 27  | <u>1042</u>                            |
| 12  | <u>1042</u>                            | 28  | <u>1035</u>                            |
| 13  | <u>1035</u>                            | 29  | <u>1032</u>                            |
| 14  | <u>1036</u>                            | 30  | <u>1035</u>                            |
| 15  | <u>1036</u>                            | 31  | <u>1042</u>                            |
| 16  | <u>1033</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 9-5-87  
 COMPLETED BY K.A. Young  
 TELEPHONE (717) 542-3251

OPERATING STATUS

1. Unit Name: Unit One Susquehanna Steam Electric Station  
 2. Reporting Period: August 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:  
Summer rating for 1989 has been incorporated into maximum dependable capacity calculations. Rating is average summer rating for seven years commercial operation.

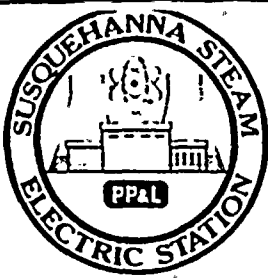
9. Power Level To Which Restricted, If Any (Net MWe): None  
 10. Reasons For Restrictions, If Any: N/A

|   | This Month | Yr.-to-Date | Cumulative  |
|---|------------|-------------|-------------|
| 11. Hours In Reporting Period               | 744        | 5831        | 54,648      |
| 12. Number Of Hours Reactor Was Critical    | 744        | 3,748.5     | 40,690.3    |
| 13. Reactor Reserve Shutdown Hours          | 0          | 0           | 1032        |
| 14. Hours Generator On-Line                 | 744        | 3,633.7     | 39,787.0    |
| 15. Unit Reserve Shutdown Hours             | 0          | 0           | 0           |
| 16. Gross Thermal Energy Generated (MWH)    | 2,431,218  | 11,471,239  | 124,074,750 |
| 17. Gross Electrical Energy Generated (MWH) | 794,264    | 3,747,428   | 40,471,288  |
| 18. Net Electrical Energy Generated (MWH)   | 768,130    | 3,587,925   | 38,833,406  |
| 19. Unit Service Factor                     | 100        | 62.3        | 72.8        |
| 20. Unit Availability Factor                | 100        | 62.3        | 72.8        |
| 21. Unit Capacity Factor (Using MDC Net)    | 100        | 59.6        | 68.8        |
| 22. Unit Capacity Factor (Using DER Net)    | 98.3       | 58.6        | 67.7        |
| 23. Unit Forced Outage Rate                 | 0          | 11.5        | 9.9         |

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 August 1989

DOCKET NO. 50-387  
 UNIT NAME One  
 DATE 9-5-89  
 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 |
|---|------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| No shutdowns or power reductions are reportable for month of August 1989. |      |                   |                  |                     |  |                         |                          |                             |   |

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

<sup>2</sup>  
 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)

<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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387

Date 9-5-89

Completed by K.A. Young

Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

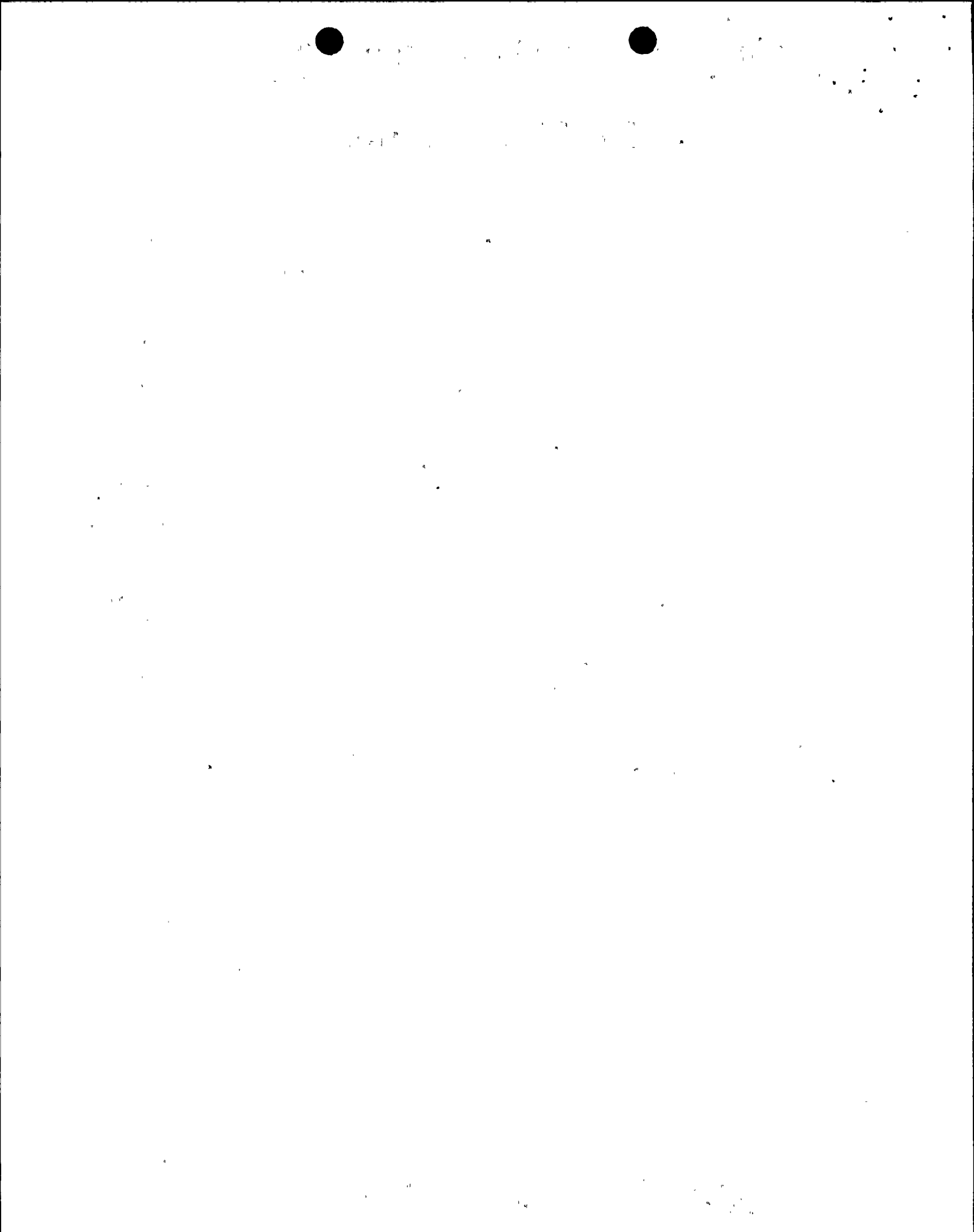
None

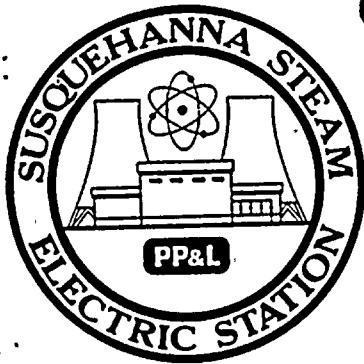
Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None





AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388  
UNIT Two  
DATE 9-5-89  
COMPLETED BY K.A. Young  
TELEPHONE (717) 542-3251

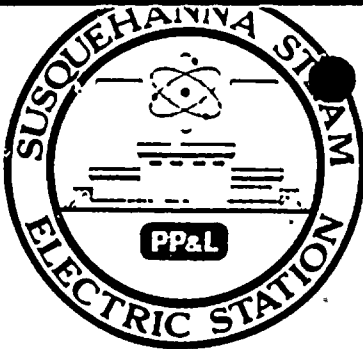
MONTH August 1989

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWe-Net) |
|-----|--|-----|--|
| 1   | <u>1037</u>                            | 17  | <u>1034</u>                            |
| 2   | <u>1036</u>                            | 18  | <u>1037</u>                            |
| 3   | <u>1029</u>                            | 19  | <u>1035</u>                            |
| 4   | <u>1023</u>                            | 20  | <u>1030</u>                            |
| 5   | <u>1023</u>                            | 21  | <u>1026</u>                            |
| 6   | <u>1024</u>                            | 22  | <u>1029</u>                            |
| 7   | <u>1036</u>                            | 23  | <u>1025</u>                            |
| 8   | <u>1044</u>                            | 24  | <u>815</u>                             |
| 9   | <u>1041</u>                            | 25  | <u>1023</u>                            |
| 10  | <u>1038</u>                            | 26  | <u>1042</u>                            |
| 11  | <u>1038</u>                            | 27  | <u>1038</u>                            |
| 12  | <u>703</u>                             | 28  | <u>1031</u>                            |
| 13  | <u>1017</u>                            | 29  | <u>1026</u>                            |
| 14  | <u>1028</u>                            | 30  | <u>1027</u>                            |
| 15  | <u>1027</u>                            | 31  | <u>1035</u>                            |
| 16  | <u>1026</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 9-5-89  
 COMPLETED BY K.A. Young  
 TELEPHONE (717)542-3251

OPERATING STATUS

Unit Two

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

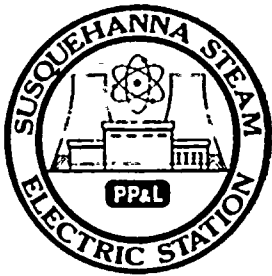
Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:  
Summer rating for 1989 has been incorporated into maximum dependable capacity calculation. Rating is average summer rating for five years commercial operation
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>5831</u>       | <u>39,887</u>      |
| 12. Number Of Hours Reactor Was Critical    | <u>744</u>       | <u>5658.2</u>     | <u>33,407.1</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>5608.2</u>     | <u>32,756.3</u>    |
| 15. Unit Reserve Shutdown Hours             | <u>0</u>         | <u>0</u>          | <u>0</u>           |
| 16. Gross Thermal Energy Generated (MWH)    | <u>2,409,831</u> | <u>17,985,999</u> | <u>103,361,602</u> |
| 17. Gross Electrical Energy Generated (MWH) | <u>781,752</u>   | <u>5,899,934</u>  | <u>33,846,763</u>  |
| 18. Net Electrical Energy Generated (MWH)   | <u>754,168</u>   | <u>5,690,965</u>  | <u>32,581,026</u>  |
| 19. Unit Service Factor                     | <u>100</u>       | <u>96.2</u>       | <u>82.1</u>        |
| 20. Unit Availability Factor                | <u>100</u>       | <u>96.2</u>       | <u>82.1</u>        |
| 21. Unit Capacity Factor (Using MDC Net)    | <u>97.6</u>      | <u>94.0</u>       | <u>78.7</u>        |
| 22. Unit Capacity Factor (Using DER Net)    | <u>96.5</u>      | <u>93.0</u>       | <u>77.8</u>        |
| 23. Unit Forced Outage Rate                 | <u>0</u>         | <u>2.4</u>        | <u>6.8</u>         |

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):  
Unit Two is scheduled for a refueling outage on September 9, 1989.  
Duration of this planned outage is eleven weeks.

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 August 1989

DOCKET NO. 50-388  
 UNIT NAME TWO  
 DATE 9-5-89  
 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   |
|-----|--------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| 9   | 890812 | S                 | 0.0              | B                   | 5  | None                    | AC                       | ZZZ                         | Unit Two commenced a power reduction at 0200 hours August 12 for a partial maintenance outage. PJM minimum load generation warning allowed Unit Two to schedule a power reduction to 60% for conducting RE-OTP-057 Test to determine location of defective fuel rod. Suspected location of leaking fuel bundle was identified. Bundle may be changed out during upcoming refuel outage. Ramp back to power commenced at 1900 hours and unit reached full power at 0800 hours August 13. |

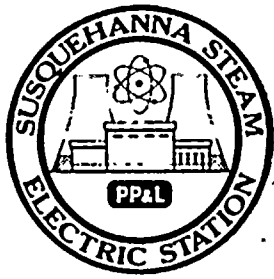
<sup>1</sup>  
 F: Forced  
 S: Scheduled

<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 August 1989

DOCKET NO. 50-388  
 UNIT NAME Two  
 DATE 9-5-89  
 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   |
|-----|--------|-------------------|------------------|---------------------|--|-------------------------|--------------------------|-----------------------------|---|
| 10  | 890824 | F                 | 0.0              | A                   | 5  | None                    | JB                       | LIT                         | At 1100 hours August 24, Unit Two experienced a reactor recirculation system runback and feedwater level setdown to 18 inches. Reactor power stabilized at approximately 55%. Recirc runback was due to "B" feedwater level instrument spurious signal interruption. Operators placed "A" feedwater level channel in the control position. The "B" level transmitter was replaced with new part and suspect instrument was sent to manufacturer-Rosemont for failure analysis. Power ascension commenced at 2200 hours August 24 with unit reaching full power level at 0900 hours August 25. |

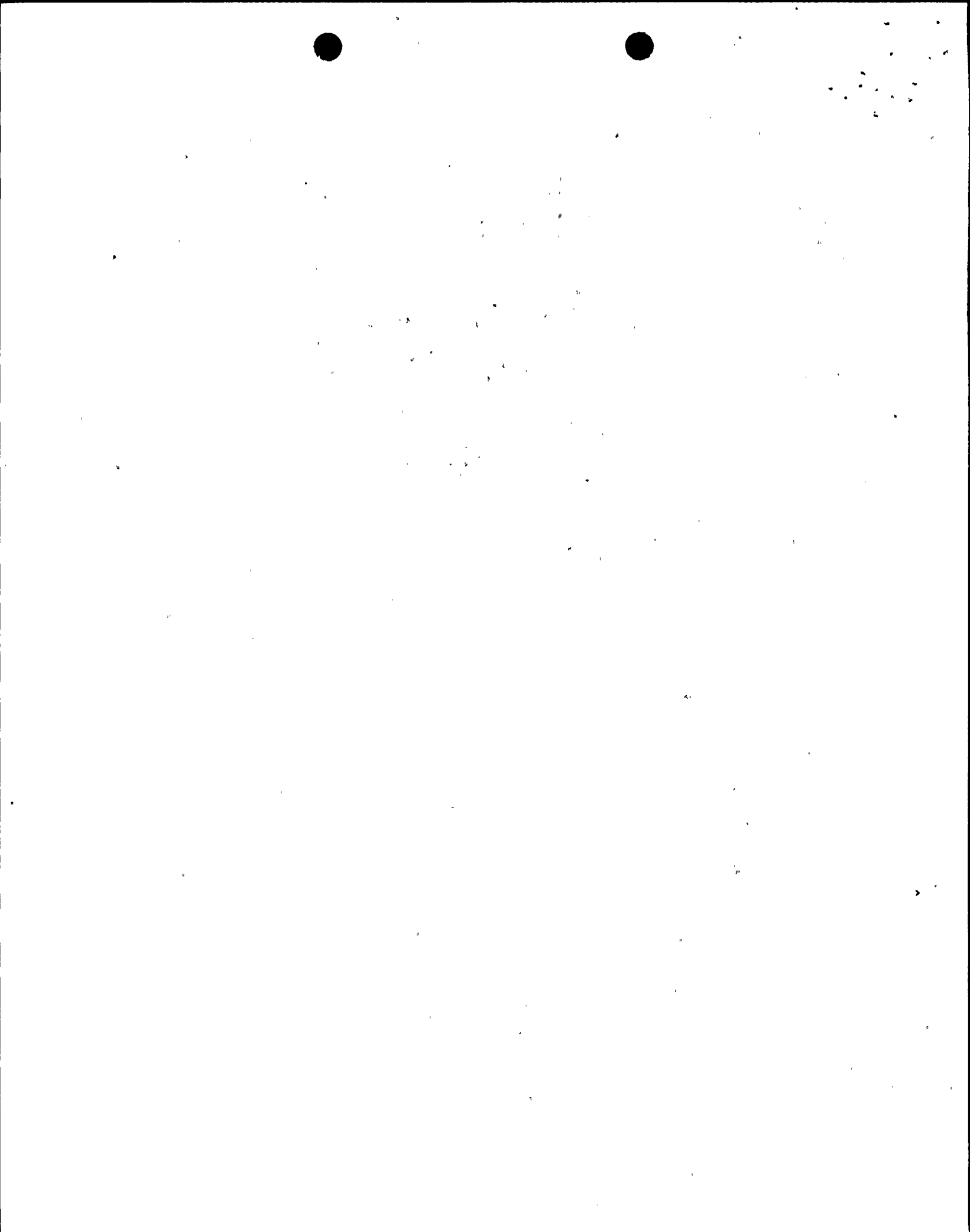
<sup>1</sup>  
 F: Forced  
 S: Scheduled

<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  
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<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 50-388 Date 9-5-89

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