

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

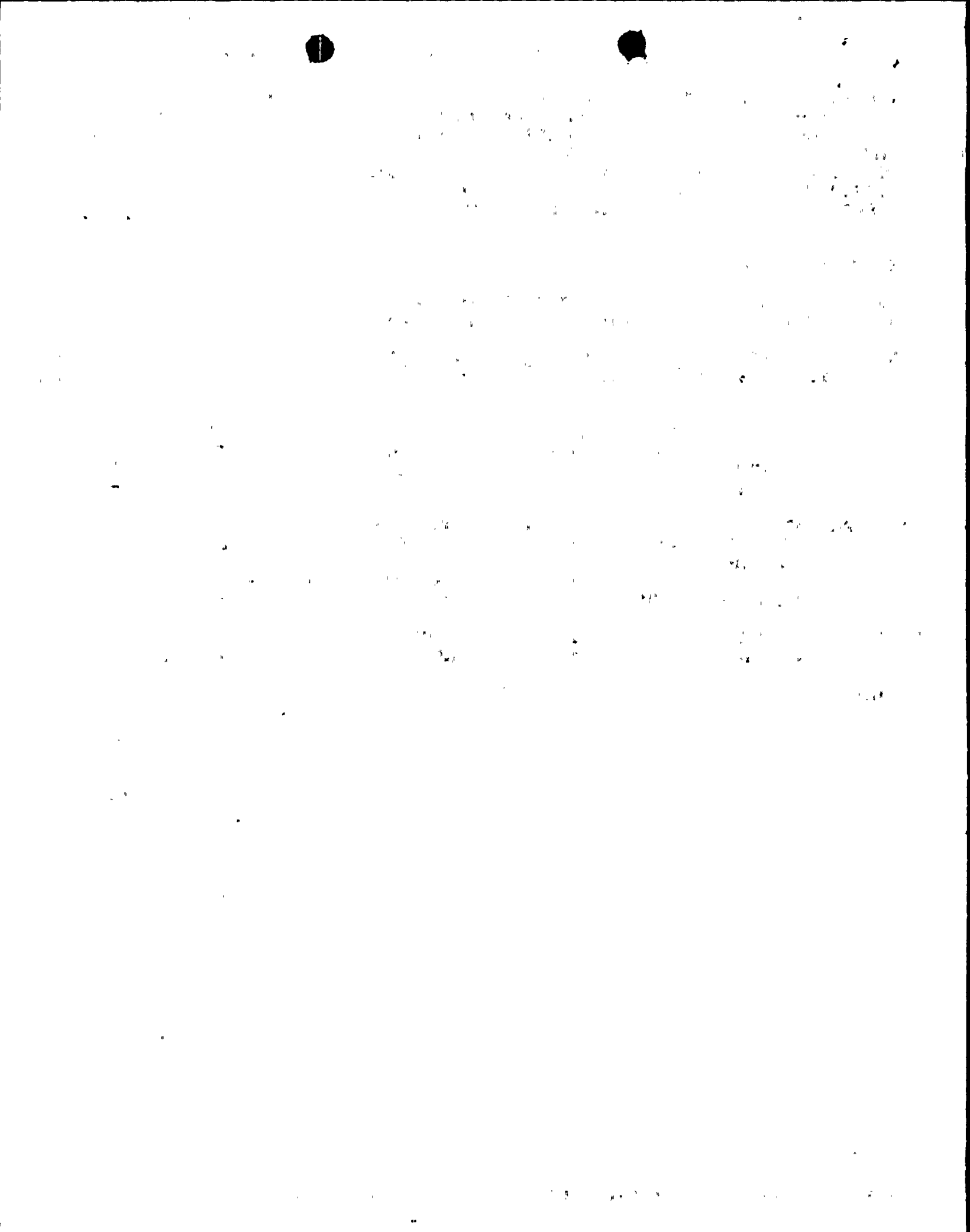
ACCESSION NBR: 8712210262 DOC. DATE: 87/11/30 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388
 AUTH. NAME AUTHOR AFFILIATION
 HIRT, J. A. Pennsylvania Power & Light Co.
 KEISER, H. W. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

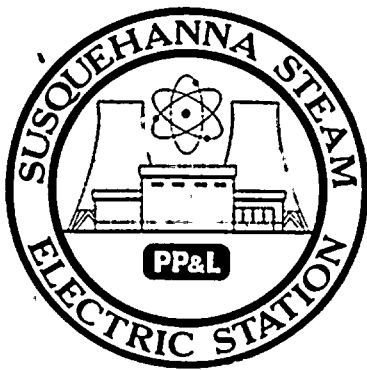
SUBJECT: Monthly operating rept for Nov 1987. W/871215 ltr.

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

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387
 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000388

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD1-2 LA THADANI, M	1 0 1 0	PD1-2 PD	5 5
INTERNAL:	ACRS	10 10	AEOD/DOA	1 1
	AEOD/DSP/TPAB	1 1	ARM TECH ADV	2 2
	NRR/DLPQ/PEB	1 1	NRR/DOEA/EAB	1 1
	NRR/DREP/RPB	1 1	NRR/PMAS/ILRB	1 1
	<u>REG FILE</u> 01	1 1	RGN1	1 1
EXTERNAL:	DOE NE32 FULNER	1 1	LPDR	2 2
	NRC PDR	1 1	NSIC	1 1
NOTES:		3 3		





OPERATING DATA REPORT

DOCKET NO. 50-387
 DATE 12/07/87
 COMPLETED BY J.A. Hirt
 TELEPHONE (717) 542-3917

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: November, 1987
3. Licensed Thermal Power (MWt): 3293
4. Nameplate Rating (Gross MWe): 1152
5. Design Electrical Rating (Net MWe): 1065
6. Maximum Dependable Capacity (Gross MWe): 1068
7. Maximum Dependable Capacity (Net MWe): 1032
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:

None

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>720</u>	<u>8,016</u>	<u>39,289</u>
12. Number Of Hours Reactor Was Critical	<u>215.1</u>	<u>5,954.2</u>	<u>28,141.7</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>812.7</u>
14. Hours Generator On-Line	<u>165.25</u>	<u>5,863.8</u>	<u>27,477.8</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>302,789</u>	<u>18,392,577</u>	<u>84,675,715</u>
17. Gross Electrical Energy Generated (MWH)	<u>94,074</u>	<u>5,971,977</u>	<u>27,559,515</u>
18. Net Electrical Energy Generated (MWH)	<u>80,578</u>	<u>5,735,694</u>	<u>26,410,723</u>
19. Unit Service Factor	<u>22.9</u>	<u>73.2</u>	<u>69.9</u>
20. Unit Availability Factor	<u>22.9</u>	<u>73.2</u>	<u>69.9</u>
21. Unit Capacity Factor (Using MDC Net)	<u>10.8</u>	<u>69.3</u>	<u>65.1</u>
22. Unit Capacity Factor (Using DER Net)	<u>10.5</u>	<u>67.2</u>	<u>63.1</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>6.3</u>	<u>10.2</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
None

25. If Shut Down At End Of Report Period, Estimated Date of Startup: NA
26. Units In Test Status (Prior to Commercial Operation):

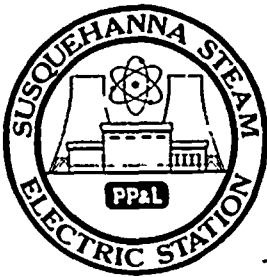
INITIAL CRITICALITY _____
 INITIAL ELECTRICITY _____
 COMMERCIAL OPERATION _____

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 R PDR

(9/77)
 IE 24 1/1



1921



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November, 1987

DOCKET NO. 50-387
 UNIT NAME SSES-Unit 1
 DATE 12/07/87
 COMPLETED BY J.A. Hirt
 TELEPHONE (717) 542-3917

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
6	870912	S	554.9	C	4	NA	ZZZZ	ZZZZZZ	Unit One was manually shutdown on September 12, 1987, at 0102 hours for its Third Refueling Outage. The outage ended on November 24, 1987 at 0251 when the unit was synchronized to the grid.

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 12/07/87

Completed by J. A. Hirt Telephone (717) 542-3917

Challenges to Main Steam Safety Relief Valves

None.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.



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REFUELING INFORMATION

DATE: 12/1/87

1. Name of facility. Susquehanna SES - Unit 1

2. Scheduled date for next refueling shutdown. 3/25/89

3. Scheduled date for restart following refueling. 6/9/89

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
If answer is yes, what, in general, will these be?
If answer is no, has the reload fuel design and core configuration been reviewed by your Plant Safety Review Committee to determine whether any unreviewed safety questions are associated with the core reload (Ref. 10 CFR Section 50.59)?

Yes, MCPR Spec., New 'fuel bundle enrichment' and 'Gadolinia design'

5. Scheduled date(s) for submitting proposed licensing action and supporting information. 12/10/88

6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.

Second Reload of Exxon 9x9 fuel in Unit 1.

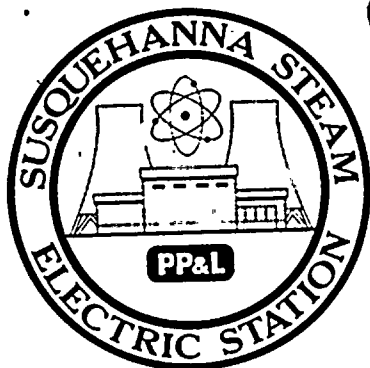
7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool. a) 764 b) 728

8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.
present 2840 increase size by 0

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.

DATE: 2000*

- *based on: 1) both pools (Units 1 & 2) are available for both units and capable of being shared.
- 2) must be able to offload one full core between both pools - i.e. $2840 - (1/2 \times 764) = 2458$ available capacity per pool.
- 3) assumes use of high burnup fuel designs in 18 month cycles.



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-388
UNIT Two
DATE 12/07/87
COMPLETED BY J.A. Hirt
TELEPHONE (717) 542-3917

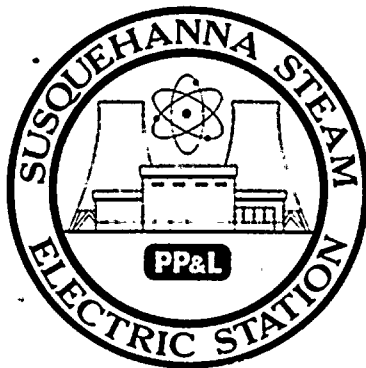
MONTH November, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>816</u>
2	<u>805</u>
3	<u>935</u>
4	<u>1045</u>
5	<u>1047</u>
6	<u>1051</u>
7	<u>1048</u>
8	<u>1040</u>
9	<u>1044</u>
10	<u>1049</u>
11	<u>1048</u>
12	<u>1050</u>
13	<u>1049</u>
14	<u>1033</u>
15	<u>1048</u>
16	<u>1048</u>

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	<u>1037</u>
18	<u>1045</u>
19	<u>1049</u>
20	<u>1037</u>
21	<u>946</u>
22	<u>1049</u>
23	<u>1048</u>
24	<u>1047</u>
25	<u>1044</u>
26	<u>1046</u>
27	<u>1049</u>
28	<u>1047</u>
29	<u>1043</u>
30	<u>1045</u>
31	<u> </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 12/07/87
 COMPLETED BY J.A. Hirt
 TELEPHONE (717) 542-3917

OPERATING STATUS Unit Two

- 1. Unit Name: Susquehanna Steam Electric Station
- 2. Reporting Period: November, 1987
- 3. Licensed Thermal Power (MWt): 3293
- 4. Nameplate Rating (Gross MWe): 1152
- 5. Design Electrical Rating (Net MWe): 1065
- 6. Maximum Dependable Capacity (Gross MWe): 1068
- 7. Maximum Dependable Capacity (Net MWe): 1032
- 8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
None

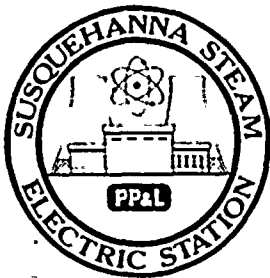
Notes

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

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>720</u>	<u>8,016</u>	<u>24,528</u>
12. Number Of Hours Reactor Was Critical	<u>720</u>	<u>7,740</u>	<u>20,848</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>717.9</u>
14. Hours Generator On-Line	<u>720</u>	<u>7,687.6</u>	<u>20,416.9</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,324,590</u>	<u>24,806,095</u>	<u>64,198,980</u>
17. Gross Electrical Energy Generated (MWH)	<u>762,256</u>	<u>8,105,612</u>	<u>21,009,906</u>
18. Net Electrical Energy Generated (MWH)	<u>736,444</u>	<u>7,825,895</u>	<u>20,228,424</u>
19. Unit Service Factor	<u>100.0</u>	<u>95.9</u>	<u>83.2</u>
20. Unit Availability Factor	<u>100.0</u>	<u>95.9</u>	<u>83.2</u>
21. Unit Capacity Factor (Using MDC Net)	<u>99.1</u>	<u>94.6</u>	<u>79.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>96.0</u>	<u>91.7</u>	<u>77.4</u>
23. Unit Forced Outage Rate	<u>0.0</u>	<u>4.1</u>	<u>9.5</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
 A refueling outage is scheduled to begin March 5, 1988 and end May 13, 1988.
 The duration is 69 days.

- 25. If Shut Down At End Of Report Period, Estimated Date of Startup: NA
 - 26. Units In Test Status (Prior to Commercial Operation):
- | | Forecast | Achieved |
|----------------------|---------------|---------------|
| INITIAL CRITICALITY | <u> </u> | <u> </u> |
| INITIAL ELECTRICITY | <u> </u> | <u> </u> |
| COMMERCIAL OPERATION | <u> </u> | <u> </u> |



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH November, 1987

DOCKET NO. 50-388
 UNIT NAME SSES-Unit 2
 DATE 12/07/87
 COMPLETED BY J. A. Hirt
 TELEPHONE (717)542-3917

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
									There was no unit shutdowns or power reductions for the month of November, 1987.

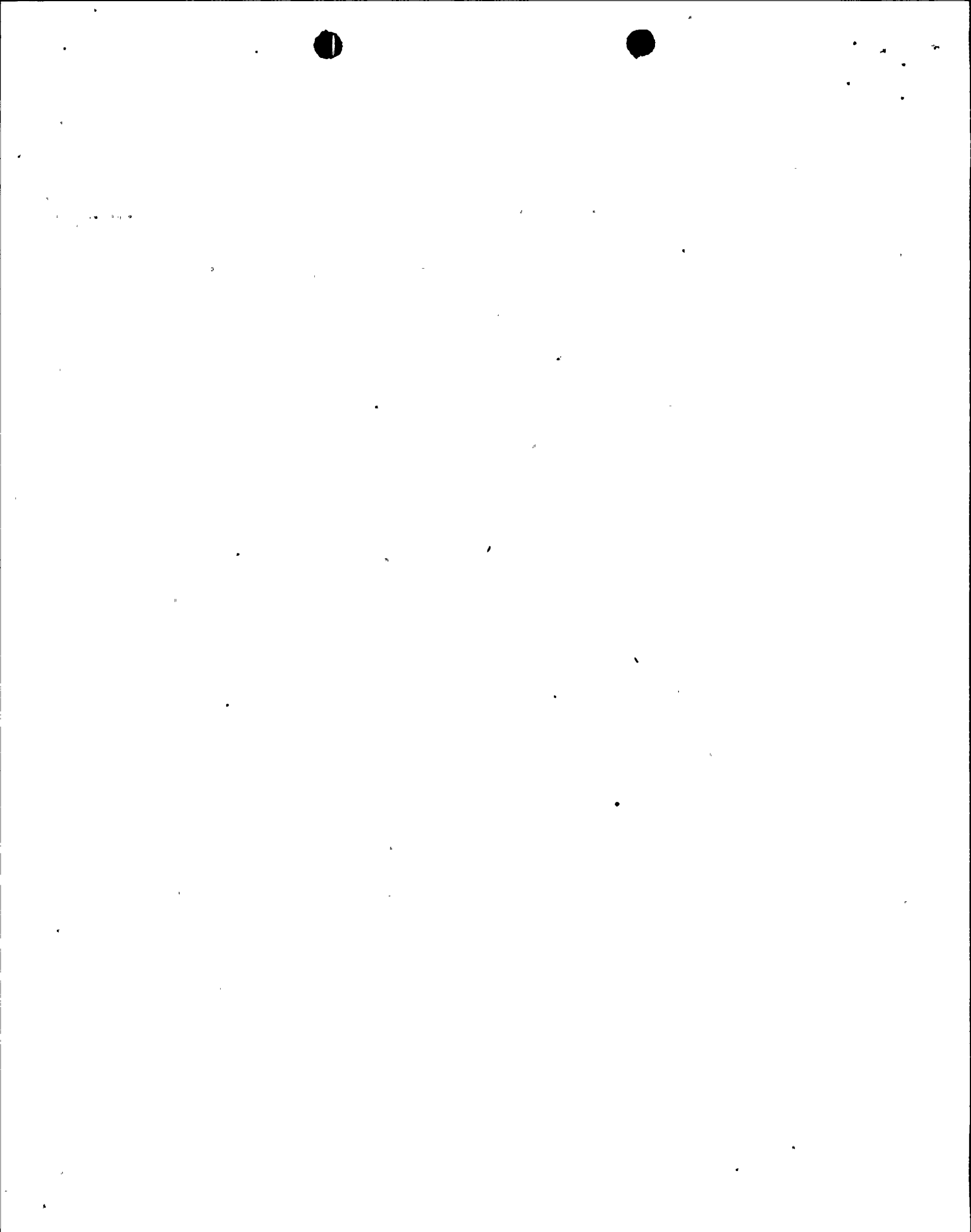
¹
 F: Forced
 S: Scheduled

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
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 0161)

⁵
 Exhibit I - Same Source



SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 12/07/87

Completed By J.A. Hirt Telephone (717) 542-3917

Challenges to Main Steam Safety Relief Valves

None.

Changes to the Offsite Dose Calculation Manual

None.

Major Changes to Radioactive Waste Treatment Systems

None.



Pennsylvania Power & Light Company

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

Harold W. Keiser
Vice President-Nuclear Operations
215/770-7502

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

DEC 15 1987

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-2949 FILE R41-2A

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

Dear Mr. McDonald:

The November 1987 monthly operating reports for Susquehanna SES Units 1 and 2 are attached. Updated refueling information is included for Unit 1.

Very truly yours,

H. W. Keiser
Vice President-Nuclear Operations

Attachment

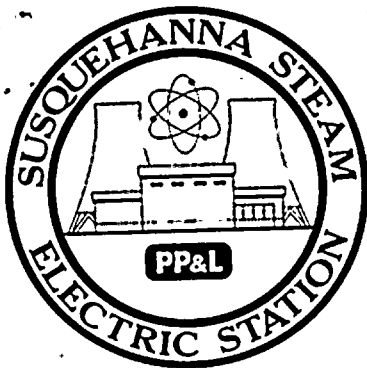
cc: Document Control Desk (Original)
NRC Region I
Mr. J. Stair - NRC Resident
Mr. M. C. Thadani - NRC Project Manager

IE24
/1



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11



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
 UNIT One
 DATE 12/07/87
 COMPLETED BY J.A. Hirt
 TELEPHONE (717) 542-3917

MONTH November, 1987

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	182
9	0	25	317
10	0	26	466
11	0	27	505
12	0	28	663
13	0	29	789
14	0	30	822
15	0	31	
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.