

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE August 9, 1984
COMPLETED BY L.A. Kuczynski
TELEPHONE (717)542-3759

MONTH July, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>962</u>	17	<u>0</u>
2	<u>1035</u>	18	<u>21</u>
3	<u>607</u>	19	<u>142</u>
4	<u>0</u>	20	<u>662</u>
5	<u>0</u>	21	<u>814</u>
6	<u>0</u>	22	<u>1019</u>
7	<u>0</u>	23	<u>1027</u>
8	<u>0</u>	24	<u>1020</u>
9	<u>167</u>	25	<u>1025</u>
10	<u>601</u>	26	<u>944</u>
11	<u>724</u>	27	<u>1023</u>
12	<u>964</u>	28	<u>1021</u>
13	<u>1030</u>	29	<u>966</u>
14	<u>1030</u>	30	<u>1022</u>
15	<u>385</u>	31	<u>1021</u>
16	<u>0</u>		

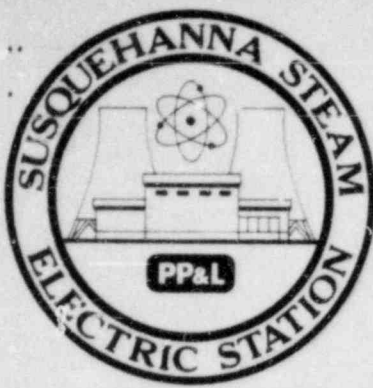
INSTRUCTIONS

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)

8409130229 840731
PDR ADOCK 05000387
R PDR

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OPERATING DATA REPORT

DOCKET NO. 50-387
 DATE August 9, 1984
 COMPLETED BY L.A. Kuczynski
 TELEPHONE (717) 542-3759

OPERATING STATUS

Unit 1

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: July, 1984
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

Notes

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
None

9. Power Level To Which Restricted, if Any (Net MWe): None

10. Reasons For Restrictions, if Any: None

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>744</u>	<u>5,111</u>	<u>10,080</u>
12. Number Of Hours Reactor Was Critical	<u>563.4</u>	<u>3,151.4</u>	<u>6,996.7</u>
13. Reactor Reserve Shutdown Hours	<u>220.1</u>	<u>249.1</u>	<u>405.8</u>
14. Hours Generator On-Line	<u>523.9</u>	<u>3,026.7</u>	<u>6,795</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>1,491,021</u>	<u>9,074,830</u>	<u>20,336,491</u>
17. Gross Electrical Energy Generated (MWH)	<u>481,250</u>	<u>2,965,470</u>	<u>6,632,020</u>
18. Net Electrical Energy Generated (MWH)	<u>461,555</u>	<u>2,853,780</u>	<u>6,390,153</u>
19. Unit Service Factor	<u>70.4</u>	<u>59.2</u>	<u>67.4</u>
20. Unit Availability Factor	<u>70.4</u>	<u>59.2</u>	<u>67.4</u>
21. Unit Capacity Factor (Using MDC Net)	<u>60.1</u>	<u>54.1</u>	<u>61.4</u>
22. Unit Capacity Factor (Using DER Net)	<u>58.2</u>	<u>52.4</u>	<u>59.5</u>
23. Unit Forced Outage Rate	<u>29.6</u>	<u>21.2</u>	<u>16.3</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: N/A

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 July, 1984

DOCKET NO. 50-387
 UNIT NAME One
 DATE August 9, 1984
 COMPLETED BY L.A. Kuczynski
 TELEPHONE (717)542-3759

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	840703	F	134.6	H	3	84-029	CI	INSTRU	The unit scrambled on low vessel level caused by a momentary loss of signal to feedwater and reactor recirculation circuitry following a lightning strike to a transmission line which supplies the station. Extensive post scram testing of the feedwater system could not reproduce the response that occurred (see attached page)
7	840715	F	30.4	H	3	84-034	EA	ELECON	The unit scrambled on turbine control valve fast closure as a result of a phase-to-phase fault on the 230KV transmission line. The tree which had grown (see attached page)
8	840716	F	26.4	A	3	84-033	HC	VALVEX	The unit scrambled on turbine control valve fast closure by loss of condenser (see attached page)
9	840718	F	28.7	G	3	84-035	HC	VALVEX	The unit scrambled due to loss of condenser vacuum. The loss of vacuum was (see attached page)

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-Other (Explain)

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 (continued):

NO. 6:

following the momentary loss of signal. A modification was completed to prevent the reactor recirculation system from receiving a false runback signal if the same circumstances were to occur.

NO. 7:

tall enough to cause the phase-to-phase arc has been trimmed.

NO. 8:

vacuum due to a operator inadvertently opening the LP condenser vacuum breaker.

NO. 9:

caused by an incorrect valve lineup established due to an unclear valve number on a piping diagram. The discrepancy was resolved.

UNIT 1

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date 8/9/84

Completed by L.A. Kuczynski Telephone (717)542-2181

Challenges to Main Steam Safety Relief Valves

During the scram of July 3, 1984, safety relief valve 'B' was manually actuated for RPV pressure control. It was closed after 7 minutes, 20 seconds, during which time reactor pressure went from approximately 1075 psig to approximately 880 pounds.

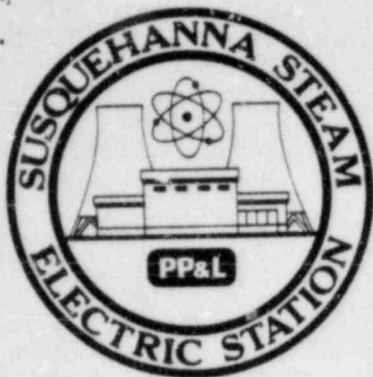
During the scram of July 15, 1984, safety relief valves 'B', 'E', and 'H' actuated. SRV 'H' closed after two seconds, 'E' after 10 seconds, and 'B' after 11 seconds. Reactor pressure went from 1081 psig to ~975 psig during the 12 seconds.

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 August 9, 1984

COMPLETED BY L.A. Kuczynski

TELEPHONE (717)542-3759

MONTH July, 1984

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	0
2	0
3	83
4	114
5	0
6	0
7	0
8	16
9	111
10	279
11	310
12	336
13	337
14	296
15	113
16	0

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
17	0
18	275
19	314
20	326
21	340
22	337
23	358
24	344
25	349
26	1
27	0
28	0
29	0
30	0
31	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.



OPERATING DATA REPORT

DOCKET NO. 50-388
 DATE August 9, 1984
 COMPLETED BY L.A. Kuczynski
 TELEPHONE (717)542-3759

OPERATING STATUS

Unit 2

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: July, 1984
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): *
7. Maximum Dependable Capacity (Net MWe): *

Notes
 Initial generator sync. at 0230 on 7/3/84.
 Initial electrical production at 1300 on 7/3/84.
 *To be determined.

8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report, Give Reasons:
None
None
9. Power Level To Which Restricted, If Any (Net MWe): Zero, from 7/27 - 31/84.
10. Reasons For Restrictions, If Any: NRC issued Confirmatory Order, dated July 27, 1984 to prevent restart of the unit pending investigation of events of 7/26/84.
Unit restart approved July 31, 1984.

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>683</u>	<u>683</u>	<u>683</u>
12. Number Of Hours Reactor Was Critical	<u>458.7</u>	<u>458.7</u>	<u>458.7</u>
13. Reactor Reserve Shutdown Hours	<u>180.3</u>	<u>180.3</u>	<u>180.3</u>
14. Hours Generator On-Line	<u>392.9</u>	<u>392.9</u>	<u>392.9</u>
15. Unit Reserve Shutdown Hours	<u>142.4</u>	<u>142.4</u>	<u>142.4</u>
16. Gross Thermal Energy Generated (MWH)	<u>474,034</u>	<u>474,034</u>	<u>474,034</u>
17. Gross Electrical Energy Generated (MWH)	<u>121,330</u>	<u>121,330</u>	<u>121,330</u>
18. Net Electrical Energy Generated (MWH)	<u>110,281</u>	<u>110,281</u>	<u>110,281</u>
19. Unit Service Factor	<u>NA</u>	<u>NA</u>	<u>NA</u>
20. Unit Availability Factor	<u>NA</u>	<u>NA</u>	<u>NA</u>
21. Unit Capacity Factor (Using MDC Net)	<u>NA</u>	<u>NA</u>	<u>NA</u>
22. Unit Capacity Factor (Using DER Net)	<u>NA</u>	<u>NA</u>	<u>NA</u>
23. Unit Forced Outage Rate	<u>NA</u>	<u>NA</u>	<u>NA</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Maintenance Outage 10/27/84, 7 weeks

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 8/1/84

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

	Forecast	Achieved
INITIAL CRITICALITY	<u>05/03/84</u>	<u>05/08/84</u>
INITIAL ELECTRICITY	<u>06/28/84</u>	<u>07/03/84</u>
COMMERCIAL OPERATION	<u>12/31/84</u>	<u>_____</u>



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-388
 UNIT NAME Two
 DATE August 9, 1984
 COMPLETED BY L.A. Kuczynski
 TELEPHONE (717)542-3759

REPORT MONTH July, 1984

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	840705	S	85.6	B	2	NA	ZZ	ZZZZZZ	Reactor scram for scheduled startup testing.
2	840715	F	60.2	A	3	84-034 (Unit #1 LER Number)	HC	RECOMB	Reactor scram due to turbine trip caused by low condenser vacuum.
3	840726	S	142.4	B	3	84-013	ZZ	ZZZZZZ	Reactor scram for scheduled startup testing. Due to an incorrectly completed electrical lineup, the diesel generators were prevented from starting and an Unusual Event was declared. The startup test was subsequently repeated and completed successfully.

NOTE: 1) Generator removed from service for 1.6 hours on 7/3/84 and 0.3 hours on 7/9/84 for startup testing.
 2) Add LER Number 84-009 to Unit Shutdown of June 11, 1984.

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-Other (Explain)

⁴
 Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

⁵
 Exhibit I - Same Source

Unit 2

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date 8/9/84
Completed By L.A. Kuczynski Telephone (717)542-3759

Challenges to Main Steam Safety Relief Valves

Following the scram of July 26, 1984, SRV 'J' lifted eight times at approximately five minute intervals to limit the reactor vessel pressure increase caused by decay heat. The relief pressure setpoint of the 'J' SRV was checked and found to be low. The setpoint was adjusted to its proper value. All other SRV relief setpoints were checked. Three additional setpoints were found out of tolerance and recalibrated.

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

Bruce D. Kenyon
Vice President-Nuclear Operations
215/770-7502

AUG 14 1984

Director, Data Automation &
Management Information Division
Attention: Mr. M. R. Beebe
Management Information Branch
Office of Resource Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
ER 100450 FILE 841
PLA-2273

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

Dear Mr. Beebe:

The July 1984 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

for B. D. Kenyon
Vice President-Nuclear Operations

Attachment

cc: Dr. Thomas E. Murley
Regional Administrator-Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

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1100 Circle 75 Parkway
Atlanta, Georgia 30339

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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
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Bureau of Radiation Protection
P.O. Box 2063
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Mr. R. H. Jacobs - NRC
Mr. R. L. Perch - NRC

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/1