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50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH.NAME AUTHOR AFFILIATION
YOUNG,K.A. Pennsylvania Power & Light Co.
BYRAM,R.G. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating ~~repts for~~ Sept 1993 for Susquehanna Steam Electric Station.W/931012 ltr.

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PP&L Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101-1179 • 215/774-5151

Robert G. Byram
Senior Vice President-Nuclear
215/774-7502

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

OCT 12 1993

U.S. Nuclear Regulatory Commission
Attn.: Document Control Desk
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-4036 FILE R41-2A

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

The September 1993 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

for R. G. Byram

Attachment

cc: NRC Region I
Mr. G. S. Barber, NRC Resident Inspector
Mr. R. J. Clark, NRC Sr. Project Manager

IE24
1/1

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387

UNIT: One

DATE: 10-05-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

MONTH September 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
1	94	17	1043
2	248	18	1039
3	700	19	1045
4	634	20	1050
5	954	21	1044
6	1019	22	1042
7	1035	23	1039
8	1038	24	329
9	1033	25	0
10	1033	26	0
11	1026	27	0
12	919	28	0
13	1024	29	0
14	1029	30	0
15	1027	31	
16	1043		

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: 10-05-93
COMPLETED BY: K.A. Young
TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (Unit 1)
2. Reporting Period: September 1993
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): 1078
7. Maximum Dependable Capacity (Net MWe): 1040
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: N/A

	This Month	Yr-to-Date	Cumulative
11. Hours In Reporting Period	720	6,551	90,432
12. Number of Hrs Reactor Was Critical	579.5	5,275.4	70,948.5
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	578.6	5,206.1	69,505.1
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated(MWH)	1,719,912	16,688,853	218,486,518
17. Gross Electrical Energy Generated (MWH)	536,058	5,428,454	71,374,334
18. Net Electric Energy Generated (MWH)	513,692	5,222,281	68,588,070
19. Unit Service Factor	80.4	79.5	76.9
20. Unit Availability Factor	80.4	79.5	76.9
21. Unit Capacity Factor (Using MDC Net)	68.6	76.7	72.9
22. Unit Capacity Factor (Using DER Net)	68.0	75.9	72.2
23. Unit Forced Outage Rate	0	18.8	8.5

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each)
Refueling outage commenced on 9-25-93, duration 70 days.

25. If Shut Down At End of Report Period, Estimated Date of Startup: December 4, 1993
26. Units In Test Status (Prior to Commercial Operation):

	FORECAST	ACHIEVED
INITIAL CRITICALITY		
INITIAL ELECTRICITY		
COMMERCIAL OPERATION		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1993

DOCKET NO. 50-387
UNIT NAME One
DATE 10-05-93
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	930712	F	0.0	H	4	93-008	TA	TRB	Continuation of ramp back to full power commenced at 2253 hours, August 31. Start up schedule included Turbine valve testing and control rod scram time testing. During power ascension maintenance activities included repairs for feedwataer string isolation and offgas hydrogen analyzers out of service. Power level was held at 60% for 24 hours during LCO entered for offgas isolation. Unit reached 100% power at 1510 hours September 5.

F: Forced
S: Scheduled

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)

Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from previous month
5-Reduction
9-Other

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

Exhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1993

DOCKET NO. 50-387
UNIT NAME One
DATE 10-05-93
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
9	930924	F	0.0	A	5	NA	BO	PDIS	Power reduction commenced at 0255 hours September 24. Unit One entered Tech. Spec. 3.0.3 due to failure of RHR injection permissive switch B21-1N021D. Both Division II of CS and RHR LPCI were inoperable. Switch repaired at 0743 hours and T.S. 3.0.3 excited. Decision was made to remain at 26% power level until scheduled shutdown to commence 7th Refuel Outage the next day.

F: Forced
S: Scheduled

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)

Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from previous month
5-Reduction
9-Other

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

Exhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH September 1993

DOCKET NO. 50-387
UNIT NAME One
DATE 10-05-93
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
10	930925	S	141.4	C	2	NA	XX	ZZZ	Unit One was manually shutdown for its planned 7th Refuel Outage commencing 0045 hours September 25. Generator was taken off line at 0235 hours and Reactor manually scrammed at 0327 hours. Planned outage length is ten weeks. Estimated return to service date is December 4, 1993.

F: Forced
S: Scheduled

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)

Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from previous month
5-Reduction
9-Other

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

Exhibit I-Same Source

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-387 Date: 10-05-93

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: 10-05-93

COMPLETED BY: K.A. Young

TELEPHONE: (717)542-3251

MONTH September 1993

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (Mwe-Net)
1	1025	17	1043
2	1022	18	1039
3	1015	19	1049
4	1029	20	1055
5	1033	21	1049
6	1004	22	1047
7	1041	23	1042
8	878	24	1049
9	994	25	1044
10	1001	26	1038
11	590	27	1045
12	946	28	1051
13	1035	29	1054
14	1027	30	1054
15	1025	31	
16	1045		

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: 10-05-93
COMPLETED BY: K.A. Young
TELEPHONE: (717)542-3251

Notes

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (Unit 2)
2. Reporting Period: September 1993
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): 1082
7. Maximum Dependable Capacity (Net MWe): 1044
8. If Changes Occur in Capacity Ratings (Items Number 3 Through 7) Since Last Report. Give Reasons:

N/A

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	720	6,551	75,671
12. Number of Hrs Reactor Was Critical	720	6,426.9	63,664.5
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	720	6,365.1	62,482.4
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated(MWH)	2,322,019	20,672,604	198,665,063
17. Gross Electrical Energy Generated (MWH)	754,854	6,793,465	65,159,199
18. Net Electric Energy Generated (MWH)	728,932	6,559,633	62,726,947
19. Unit Service Factor	100	97.2	82.6
20. Unit Availability Factor	100	97.2	82.6
21. Unit Capacity Factor (Using MDC Net)	97.0	95.9	79.4
22. Unit Capacity Factor (Using DER Net)	96.4	95.4	79.0
23. Unit Forced Outage Rate	0	2.8	5.2

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		

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH Septemer 1993

DOCKET NO. 50-388
UNIT NAME Two
DATE 10-05-93
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
6	930910	S	0.0	B	5	NA	XX	ZZZ	Unit Two commenced a power reduction at 2200 hours September 10 for scheduled maintenance. Power level was reduced to as low as 40% for control rod sequence exchange and reactor recirc MG set brush change outs. During power ascension schedule power was held at 60% for 12 hours to clean condenser water boxes. Unit returned to 100% power at 2105 hours September 12.

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

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date: 10-05-93

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.