ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9003290147 DOC.DATE: 90/02/28 NOTARIZED: NO DOCKET #
FACIL:50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH.NAME AUTHOR AFFILIATION
YOUNG,K.A. Pennsylvania Power & Light Co.
KEISER,H.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Feb 1989 for Susquehanna SES Units 1 & 2.W/900315 ltr.

DISTRIBUTION CODE: IE24D COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 10

TITLE: Monthly Operating Report (per Tech Specs)

NOTES:LPDR 1 cy Transcripts. 05000387
LPDR 1 cy Transcripts. 05000388

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD1-2 LA	3	3	PD1-2 PD	1	1
	THADANI,M	1	1			
INTERNAL:	ACRS	10	10	AEOD/DOA	1	1
	AEOD/DSP/TPAB	1	1	IRM TECH ADV	2	2
	NRR/DLPQ/LPEB10	1	1	NRR/DOEA/OEAB11	1	1
	NRR/DREP/PRPB11	1	1	NUDOCS-ABSTRACT	1	1
	REG FILE 01	1	1	RGN1	1	1
EXTERNAL:	EG&G STUART,V.A	1	1	LPDR	1	1
	NRC PDR	1	1	NSIC	1	1
NOTES:		2	2			

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 31 ENCL 31

RIDS/ADDS

RIDS/ADDS

mor

PP&L 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

MAR 15 1990

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-3360 FILE R41-2A

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

Dear Mr. McDonald:

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

Very truly yours,

H. W. Keiser

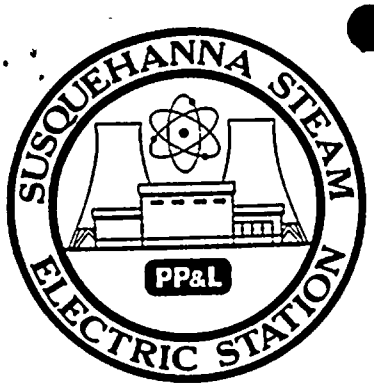
H. W. Keiser

Attachment

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

9003290147 900228
PDR ADOCK 05000387
R PDC

IE24
1/1



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE 3-6-90
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH February 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	445	17	1054
2	0	18	1052
3	0	19	1051
4	0	20	1055
5	0	21	1054
6	0	22	1054
7	0	23	1050
8	0	24	1055
9	0	25	1015
10	0	26	1056
11	38	27	1050
12	378	28	1056
13	918	29	
14	1052	30	
15	1038	31	
16	1050		

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 3-6-90
COMPLETED BY K.A. Young
TELEPHONE (717)542-3251

OPERATING STATUS

Unit One

1. Unit Name: Susquehanna Steam Electric Station
2. Reporting Period: February 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): 1069.3
7. Maximum Dependable Capacity (Net MWe): 1032.7
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

Notes

	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	672	1,416	58,993
12. Number Of Hours Reactor Was Critical	466.2	1,210.2	44,744.5
13. Reactor Reserve Shutdown Hours	0	0	1,032
14. Hours Generator On-Line	432.4	1,176.4	43,777.8
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,324,274	3,726,089	136,896,735
17. Gross Electrical Energy Generated (MWH)	436,254	1,228,736	44,686,576
18. Net Electrical Energy Generated (MWH)	416,910	1,181,842	42,896,514
19. Unit Service Factor	64.4	83.1	74.2
20. Unit Availability Factor	64.4	83.1	74.2
21. Unit Capacity Factor (Using MDC Net)	60.1	80.8	70.4
22. Unit Capacity Factor (Using DER Net)	59.1	79.5	69.3
23. Unit Forced Outage Rate	35.7	16.9	9.7

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	____	____

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION
PP&L

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1990

DOCKET NO. 50-387
UNIT NAME One
DATE 3-6-90
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
2	900201	F	239.6	A	1	90-005-00	TG JC	FCV 52	Unit One manually shutdown for a full forced outage at 1332 hours February 1. Outage was caused by an Electrical Hydraulic Control (EHC) oil leak on the "D" turbine control valve. Repairs were completed on EHC oil leak. During startup preparation on February 3, unit entered an alert status when an electrical short circuit occurred in a circuit breaker panel on the reactor protection system (RPS). Outage length was extended to allow for the development and installation of a RPS modification that would prevent recurrence of identified root cause. Unit returned to service at 1311 hours February 11 and reached 100% power at 0110 hours February 14.

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 February, 1990

Completed by K.A. Young Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

While Unit 1 was in Condition 4 (Cold Shutdown), three SRV's were manually actuated on February 3, 1990. During a Reactor Protection System (RPS) Surveillance, an electrical short to ground caused loss of RHR Shutdown cooling mode. As Reactor coolant temperature exceeded 200°F, per plant procedures, Reactor coolant temperature was controlled using SRV blow down to the suppression pool with makeup inventory via Control Rod Drive System. Data for SRV Actuation follows:

Valve Number	Length of Time Open	Rx Pressure/Open	Rx Pressure/Closed
1F013A	4 Hr 51 min	10 psig	11 psig
1F013B	4 hr 1 min	15 psig	12 psig
1F013C	3 hr 35 min	19 psig	12 psig

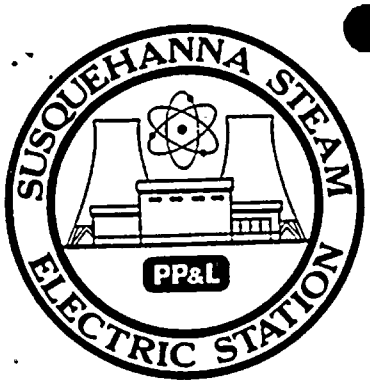
All three SRV's properly reseated upon closing as evidenced by accoustical monitor readings and tail pipe temperatures. SRV tail pipe temperature after reactor returned to service indicated these valves are properly reseated.

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 3-6-90
COMPLETED BY K.A. Young
TELEPHONE (717) 542-3251

MONTH February 1990

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	1053	17	1056
2	1053	18	1056
3	1052	19	1056
4	1051	20	1056
5	1056	21	1056
6	385	22	1053
7	0	23	1053
8	0	24	1057
9	0	25	1056
10	0	26	1057
11	0	27	1056
12	0	28	1055
13	151	29	
14	810	30	
15	966	31	
16	1049		

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 3-6-90
COMPLETED BY K.A. Young
TELEPHONE (717)542-3251

OPERATING STATUS

1. Unit Name: Unit Two Susquehanna Steam Electric Station
2. Reporting Period: February 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): 1074.6
7. Maximum Dependable Capacity (Net MWe): 1038.2
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

Notes

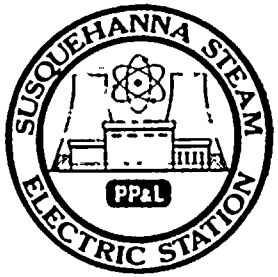
	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	672	1,416	44,232
12. Number Of Hours Reactor Was Critical	523.3	1,267.3	35,932.6
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	504	1,248	35,143.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,608,770	4,032,579	110,840,554
17. Gross Electrical Energy Generated (MWH)	530,538	1,333,846	36,321,759
18. Net Electrical Energy Generated (MWH)	508,208	1,283,764	34,944,445
19. Unit Service Factor	75.0	88.1	79.5
20. Unit Availability Factor	75.0	88.1	79.5
21. Unit Capacity Factor (Using MDC Net)	72.9	87.3	76.1
22. Unit Capacity Factor (Using DER Net)	72.0	86.3	75.2
23. Unit Forced Outage Rate	25.0	11.9	6.8

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 February 1990

DOCKET NO. 50-388
UNIT NAME Two
DATE 3-6-90
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
1	900206	F	168.0	A	3	90-002-00	FK	87	At 0906 hours on February 6, Unit 2 experienced an auto scram from 100% power. During pre-planned maintenance work in the 500KV switchyard, a loose "states" link in the differential current relay circuit caused a generator load reject, main turbine trip, and reactor auto scram. Faulted "states" link was replaced and checks were made of the wiring terminations and "states" links on all related accessible relay and control panels to confirm that the connections were in proper order to preclude a recurrence. Management decision was made to enter a seven day outage to install a RPS Mod developed as a result of Unit 1's February 3rd alert. (Cont'd)

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
PP&L

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH February 1990

DOCKET NO. 50-388
UNIT NAME Two
DATE 3-6-90
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
									(Continued from Page 1) Unit Two returned to service at 0904 hours February 13 and reached 100% power at 2000 hours February 15.

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

(9/77)

SUSQUEHANNA STEAM ELECTRIC STATION

Docket Number 50-388 Date February 1990

Completed by K.A. Young Telephone (717) 542-3251

Challenges to Main Steam Safety Relief Valves

Unit Two experienced an auto scram from full power at 0906 hours February 6. Cause of scram was a generator load reject and main turbine trip. Three SRV's actuated per design for this transient. Data for SRV actuations follows:

Valve Number	Length of Time Open	Rx Pressure Open	Rx Pressure Closed
2F013B	8.2 sec	1075 psig	976 psig
2F013D	7.2 sec	1061 psig	998 psig
2F013E	7.2 sec	1061 psig	976 psig

All three SRV's reseated properly upon closing as evidenced by accoustical readings, tail pipe temperatures and normal shutdown activities. SRV tailpipe temperatures after reactor returned to service indicated these valves are properly reseated.

Changes to the Offsite Dose Calculation Manual

None

Major Changes to Radioactive Waste Treatment Systems

None