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ACCELERATED RIDS PROCESSING

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9505230151 DOC.DATE: 95/04/30 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
 BALL,R.S. Pennsylvania Power & Light Co.
 BYRAM,R.G. Pennsylvania Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Apr 1995 for SSES Units 1 & 2.
 W/950515 ltr.

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NOTES: 05000387

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Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101-1179 • 610/774-5151

Robert G. Byram
Senior Vice President—Nuclear
610/774-7502
Fax: 610/774-5019

MAY 15 1995

Submitted pursuant to
Technical Specifications
Section 6.9.1.6

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

SUSQUEHANNA STEAM ELECTRIC STATION
MONTHLY OPERATING REPORTS
PLA-4318 FILE R41-2A

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

The April 1995 monthly operating reports for Susquehanna SES Units 1 and 2 are attached.

Very truly yours,

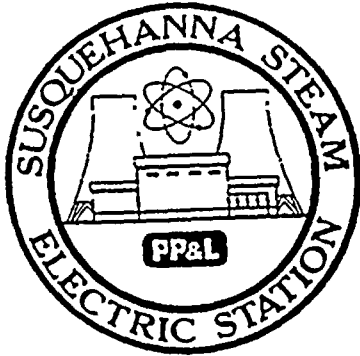


R. G. Byram

Attachment

copy: NRC Region I
Ms. M. Banerjee, NRC Sr. Resident Inspector
Mr. C. Poslusny, Jr., NRC Sr. Project Manager

9505230151 950430
PDR ADOCK 05000387
R PDR



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-387
UNIT One
DATE 5-5-95
COMPLETED BY R. S. Ball
TELEPHONE (717)542-3453

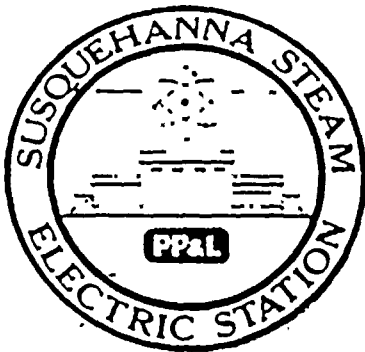
MONTH April 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	<u>0</u>	17	<u>0</u>
2	<u>0</u>	18	<u>0</u>
3	<u>0</u>	19	<u>0</u>
4	<u>0</u>	20	<u>0</u>
5	<u>0</u>	21	<u>0</u>
6	<u>0</u>	22	<u>0</u>
7	<u>0</u>	23	<u>0</u>
8	<u>0</u>	24	<u>0</u>
9	<u>0</u>	25	<u>0</u>
10	<u>0</u>	26	<u>0</u>
11	<u>0</u>	27	<u>0</u>
12	<u>0</u>	28	<u>0</u>
13	<u>0</u>	29	<u>0</u>
14	<u>0</u>	30	<u>0</u>
15	<u>0</u>	31	<u>0</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.

11/13/64
S 1234



OPERATING DATA REPORT

DOCKET NO. 50-387
 DATE 5-5-95
 COMPLETED BY R. S. Ball
 TELEPHONE (717) 542-3453

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station (U1)
2. Reporting Period: April 1995
3. Licensed Thermal Power (MWe): 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:

Notes

N/A

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

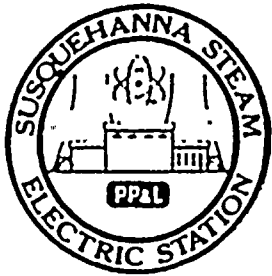
	This Month	Yr.-to-Date	Cumulative
11. Hours In Reporting Period	<u>719</u>	<u>2,879</u>	<u>104,280</u>
12. Number Of Hours Reactor Was Critical	<u>0</u>	<u>1,993.3</u>	<u>81,234.2</u>
13. Reactor Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>1032</u>
14. Hours Generator On-Line	<u>0</u>	<u>1,992.6</u>	<u>79,747.2</u>
15. Unit Reserve Shutdown Hours	<u>0</u>	<u>0</u>	<u>0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0</u>	<u>6,542,459</u>	<u>251,700,329</u>
17. Gross Electrical Energy Generated (MWH)	<u>0</u>	<u>2,165,215</u>	<u>82,268,435</u>
18. Net Electrical Energy Generated (MWH)	<u>-6,623</u>	<u>2,079,999</u>	<u>79,056,959</u>
19. Unit Service Factor	<u>0</u>	<u>69.2</u>	<u>76.5</u>
20. Unit Availability Factor	<u>0</u>	<u>69.2</u>	<u>76.5</u>
21. Unit Capacity Factor (Using MDC Net)	<u>N/A</u>	<u>69.5</u>	<u>72.9</u>
22. Unit Capacity Factor (Using DER Net)	<u>N/A</u>	<u>68.8</u>	<u>72.2</u>
23. Unit Forced Outage Rate	<u>0</u>	<u>0</u>	<u>7.5</u>

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):
Unit 1 commenced its 8th Refuel and Inspection Outage on March 25, 1995

25. If Shut Down At End Of Report Period, Estimated Date of Startup: May 13, 1995
26. Units In Test Status (Prior to Commercial Operation):

Forecast	Achieved
----------	----------

INITIAL CRITICALITY	_____	_____
INITIAL ELECTRICITY	_____	_____
COMMERCIAL OPERATION	_____	_____



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April 1995

DOCKET NO. 50-387
 UNIT NAME One
 DATE 5-5-95
 COMPLETED BY R. S. Ball
 TELEPHONE (717) 542-3453

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	950325	S	719	C	4	N/A	XX	ZZZ	Unit 1 was manually shutdown for its planned eighth refuel and inspection outage commencing at 1822 hours March 24. The generator was taken off-line at 0033 hours March 25, and a manual Reactor Scram was initiated at 0120 hours March 25. The planned outage duration is 50 days, with an estimated return to service date of May 13, 1995.

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: 5-05-95

Completed by: R. S. Ball Telephone: (717) 542-3453

Challenges to Main Steam Safety Relief Valves

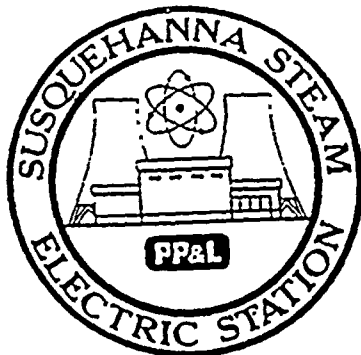
None.

Changes to the Offsite Dose Calculation Manual

Yes. See Attachment A for changes.

Major Changes to Radioactive Waste Treatment Systems

None.



AVERAGE DAILY UNIT POWER LEVEL

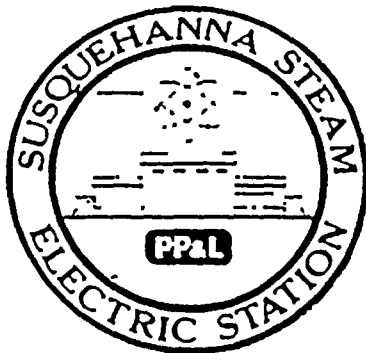
DOCKET NO. 50-388
 UNIT Two
 DATE 5-5-95
 COMPLETED BY R.S. Ball
 TELEPHONE (717)542-3453

MONTH April 1995

DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	949	17	0
2	943	18	0
3	939	19	0
4	938	20	0
5	942	21	26
6	1002	22	454
7	1103	23	1007
8	1106	24	1102
9	1000	25	1102
10	1049	26	1102
11	1105	27	1094
12	1098	28	1100
13	1103	29	1100
14	1105	30	1103
15	421	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.



OPERATING DATA REPORT

DOCKET NO. 50-388
 DATE 5-5-95
 COMPLETED BY R.S. Ball
 TELEPHONE (717)542-3453

OPERATING STATUS

1. Unit Name: Susquehanna Steam Electric Station(U2)
2. Reporting Period: April 1995
3. Licensed Thermal Power (MWt): 3441
4. Nameplate Rating (Gross MWe): 1168
5. Design Electrical Rating (Net MWe): 1100
6. Maximum Dependable Capacity (Gross MWe): 1132
7. Maximum Dependable Capacity (Net MWe): 1094
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	719	2,879	89,519
12. Number Of Hours Reactor Was Critical	589.6	2,749.6	74,936.5
13. Reactor Reserve Shutdown Hours	0	0	717.9
14. Hours Generator On-Line	568.6	2,728.6	73,519.3
15. Unit Reserve Shutdown Hours	0	0	0
16. Gross Thermal Energy Generated (MWH)	1,806,971	9,195,641	235,238,351
17. Gross Electrical Energy Generated (MWH)	595,078	3,050,010	77,224,794
18. Net Electrical Energy Generated (MWH)	572,523	2,946,156	74,347,052
19. Unit Service Factor	79.1	94.8	82.1
20. Unit Availability Factor	79.1	94.8	82.1
21. Unit Capacity Factor (Using MDC Net)	72.8	93.5	79.1
22. Unit Capacity Factor (Using DER Net)	72.4	93.0	78.7
23. Unit Forced Outage Rate	20.9	5.2	5.2

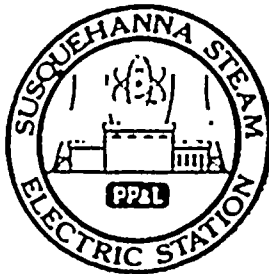
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each):

Refueling Outage to commence 9/16/95 with an estimated duration of 50 days.

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

INITIAL CRITICALITY
 INITIAL ELECTRICITY
 COMMERCIAL OPERATION

Forecast	Achieved
_____	_____
_____	_____
_____	_____



UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH April 1995

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 5-5-95
 COMPLETED BY R. S. Ball
 TELEPHONE (717) 542-3453

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
3	950401	F	0.0	A	5	N/A	KD	ZZZ	Unit 2 reduced power to 85% at 0133 hours April 01 due to high primary coolant conductivity. The high conductivity was believed to be caused by an organic contamination related to U1-8RIO outage activities. The Condensate Demineralizer resin was changed out on April 6 and the unit was returned to 100% power at 2148 hours April 6.
4	950409	F	0.0	A	5	N/A	SC	V	Unit 2 reduced power to 75% at 1400 hours April 9 to repair the discharge check valve on the "D" Condensate Pump. The Unit was returned to 100% power at 0908 hours April 10.

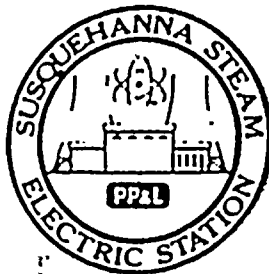
¹
 F: Forced
 S: Scheduled

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 C - 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

REPORT MONTH April 1995

DOCKET NO. 50-388
 UNIT NAME Two
 DATE 5-8-95
 COMPLETED BY R.S. Ball
 TELEPHONE (717)542-3453

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
5	950415	F	150.4	A	3	95-005-00	FK	BKR	Unit 2 experienced an automatic Reactor scram at 0907 hours April 15 due to a Main Generator load reject. Major work accomplished during the outage included replacement of the "A" Reactor Recirc Pump Seal and replacement of the "B" Main Transformer bushing. Unit 2 startup commenced at 1657 hours April 20 and reached 100% power at 2232 hours April 23.

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.
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 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: 5-05-95

Completed by: R. S. Ball Telephone: (717) 542-3453

Challenges to Main Steam Safety Relief Valves

Challenges to Main Steam Safety Relief Valves occurred during autoscam on April 15, 1995. Four SRV's automatically activated and peak Reactor pressure was 1113 psig. Data for SRV actuation follows:

Valve Number	Length of Time Open	Reactor Pressure Open	Reactor Pressure Close
2F013G	7 sec	1113 psig	1017 psig
2F013K	7 sec	1113 psig	1013 psig
2F013M	7 sec	1113 psig	1013 psig
2F013N	1 sec	1031 psig	1017 psig

Changes to the Offsite Dose Calculation Manual

Yes. See Attachment A for changes.

Major Changes to Radioactive Waste Treatment Systems

None

PENNSYLVANIA POWER & LIGHT COMPANY
SUSQUEHANNA STEAM ELECTRIC STATION
OFFSITE DOSE CALCULATION MANUAL

Revision 4



CONTROLLED

Prepared By Robins K. Bracy

Date 4/17/95

Reviewed By Kenneth E. Shank
Supervisor-Environmental Services
Nuclear

Date 4/17/95

Reviewed By Shank 95-052
PORC/Meeting No.

Date 4/28/95

Approved By D. P. Mill
Manager-Nuclear Technology

Date 4/17/95

SUMMARY OF ODCM CHANGES

1. Three milk sampling stations (10G1, 10D2 and 10D1) were inadvertently deleted in Table 6, Rev. 3, and are restored herein. These deletions were not noted in review of Table 6, Rev. 3, which was submitted in resolution to SOOR 95-045.
2. The name of the restaurant at TLD station 6A4 has been deleted to make the description more generic, in response to a PORC comment from the meeting on March 30, 1995.



<u>TABLE</u>	<u>PAGE</u>	<u>APPROVAL DATE</u>	<u>REVISION DATE</u>
5-6c Composite Dose Factors: Maximum Hypothetical Child (2pp).....	5-6c(1,2)	2/18/94	3/11/94
5-6d Water Ingestion Dose Factors: Maximum Hypothetical Infant (2pp).....	5-6d(1,2)	2/18/94	3/11/94
6 Operational Radiological Environmental Monitoring Program.....	48	4/17/95	4/20/95
	49	3/23/95	3/30/95
	50	4/17/95	4/20/95
7 Detection Capabilities for Environmental Sample Analysis.....	51	1/16/95	1/20/95
	52	1/16/95	1/20/95
8 Systems Classified as Not an Effluent Pathway...	61	3/29/95	3/30/95
9 Systems Classified as Insignificant Effluent Pathway.....	64	3/29/95	3/30/95
10 Systems Classified as Significant Effluent Pathway.....	65	3/29/95	3/30/95
B-1 Radiological Environmental Monitoring Program Annual Summary.....	B-3	12/11/89	12/11/89
B-2 Reporting Levels for Nonroutine Operating Reports.....	B-4	12/11/89	3/11/94
D-1 Dilution Factors and Transit Times for SSES Effluents to Danville, PA.....	D-1	11/9/93	3/11/94

APPV RKB
DATE 4/20/95

TABLE 6

OPERATIONAL RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathways and/or Sample</u>	<u>Number of Samples and Locations*</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
<u>Airborne</u>			
Radioiodine and Particulates*	12S1 0.4 mi WSW EOF Building	Continual sampler operation with sample collection weekly.**	Radioiodine Canister: analyze weekly for I-131
	9B1 1.3 mi S Transmission Line		
	5S4 0.8 mi E Environmental Laboratory		
	12E1 4.7 mi WSW Berwick Hospital		
	7G1 14 mi SE PP&L Hazleton Complex*		
	3S2 0.5 mi NE SSES Backup Met. Tower		
	7S7 0.4 mi SE End of Kline's Road		
	10S3 0.6 mi SSW East of Confer's Lane, South of Towers Club		
	13S6 0.4 mi W Former Laydown Area, West of Confer's Lane		
	12G1 15 mi WSW PP&L Bloomsburg Service Center*		
<u>Direct Radiation</u>			
1S2 Perimeter Fence - 0.2 mi N	Quarterly	Gamma Dose: Quarterly.	
1D5 Mocanaqua Sewage Treatment Plant - 4.0 mi N			
2S3 Perimeter Fence - 0.2 mi NNE			
2B3 Durabond Corporation - 1.3 mi NNE			
2F1 St. Adalberts Cemetery - 5.9 mi NNE			
3S4 Perimeter Fence - 0.3 mi NE			
4S3 West of SSES APF - 0.2 mi ENE			
4E2 Ruckles Hill & Pond Hill Roads Intersection: 4.7 mi ENE			
4G1 Crestwood Industrial Park - 14 mi ENE*			
5S7 Perimeter Fence - 0.3 mi E			
5E2 Bloss Farm - 4.5 mi E			
6S4 Perimeter Fence - 0.2 mi ESE			
6A4 Restaurant - 0.6 mi ESE			
6E1 St. James Church - 4.7 mi ESE			

48

APPV	12/11/12
DATE	4/17/95

Rev. 4



<u>Exposure Pathways and/or Sample</u>	<u>Number of Samples and Locations*</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
Sediment from Shoreline	7B Bell Bend - 1.2 mi SE	Semi-annually	Gamma isotopic analysis semi-annually.
Milk***	12B3 Young Farm - 2.0 mi WSW 10G1 Davis Farm - 14.0 mi. SSW* 10D2 Ray Ryman Farm - 3.5 mi. SSW 10D1 R&C Ryman Farm - 3.0 mi. SSW.	Semi-monthly when animals are on pasture, monthly otherwise	Gamma isotopic and I-131 analysis of each sample
Fish and Invertebrates	Outfall area 2H Falls, Pa* (Approximately 30 mi NNE)	Semi-annually. One sample ^c from each of two recreationally important species from any of the following families: bullhead catfish, sunfish, pikes, or perches.	Gamma isotopic on edible portions.
Food Products	11D1 Zehner Farm - 3.3 mi SW vegetable 12F7 Lupini Farm - 8.3 mi WSW vegetable	At time of harvest	Gamma isotopic on edible portions.

50

*The location of samples and equipment were designed using the guidance in the Branch Technical Position to NRC Rev. Guide 4.8, Rev. 1, Nov. 1979, Reg. Guide 48.1975 and ORP/SID 72-2 Environmental Radioactivity Surveillance Guide. Therefore, the airborne sampler locations were based upon X/Q and/or D/Q.

**A dust loading study (RMC-TR-81-01) concluded that the assumption of 1 for the transmission correction factor for gross beta analysis of air particulate samples is valid. Air particulate samples need not be weighed to determine a transmission correction factor.

***If a milk sample is unavailable for more than two sampling periods from one or more of the locations, a vegetation sample shall be substituted until a suitable milk location is evaluated. Such an occurrence will be documented in the REMP annual report.

^aControl sample location.

^bTwo-week composite if calculated doses due to consumption of water exceed one millirem per year. In these cases, I-131 analyses will be performed.

^cThe sample collector will determine the species based upon availability, which may vary seasonally and yearly.

APPV *[Signature]*
DATE *4/12/95*

Rev. 4

