

PHILADELPHIA ELECTRIC COMPANY



PEACH BOTTOM ATOMIC POWER STATION

R.D. 1, Box 208

Delta, Pennsylvania 17314

(717) 456-7014

PEACH BOTTOM—THE POWER OF EXCELLENCE

D. B. Miller, Jr.
Vice President

April 14, 1993

Docket Nos. 50-277
50-278

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

SUBJECT: Peach Bottom Atomic Power Station Monthly Operating Report

Gentlemen:

Enclosed are twelve copies of the monthly operating report for Peach Bottom Units 2 and 3 for the month of March 1993 forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

Ken Powers
for D.B. Miller JR.

DBM AJW GHG GDE MSH
DBM/AJW/GHG/GDE/MSH:mss

Enclosure

cc: R.A. Burricelli, Public Service Electric & Gas
W.P. Dornsife, Commonwealth of Pennsylvania
J.J. Lyash, USNRC Senior Resident Inspector
R.I. McLean, State of Maryland
T.T. Martin, Administrator, Region I, USNRC
H.C. Schwemm, Atlantic Electric
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NRC Monthly Operations Summary
Peach Bottom Atomic Power Station
March 1993

UNIT 2

Unit 2 began the month at nominal 100% power. On March 2, a condensate pump tripped leading to a reduction to 40 % power. Later in the same day, a second pump tripped, causing a reactor scram on low reactor feed pump suction pressure. The unit entered a limited scope maintenance outage. The unit was restarted on March 17. During power ascension, a recirc pump was removed from service due to high oil level, causing a reduction to approximately 35 % power. Full power was obtained on March 19. On March 20, a recirc pump tripped when a tach generator failure occurred, causing a reduction to approximately 40 % power. The pump was restarted later the same day and nominal 100 % power was reached on March 20. The unit remained at full power the rest of the month except for a small load drop for testing.

UNIT 3

Unit 3 began the month at nominal 100% power. On March 7, the trip of the C RFP and control failure of B RFP caused a reactor scram on low reactor level. The unit was restarted on March 12. During power ascension, MSIV testing was completed. On March 15, power was limited to approximately 80 % when the third reactor feed pump experienced high vibration. This problem was resolved and full power was obtained on March 18. There were two brief load drops during the remainder of the month for filter demin regeneration and to remove a recirc M/G set for lube oil cooler cleaning.

UNIT 2 REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

Reload 10 scheduled for September 10, 1994.

3. Scheduled date for restart following refueling:

Restart following refueling forecast for December 8, 1994.

4. Will refueling or resumption of operation therefore require a technical specification change or other license amendment?

No.

If answer is yes, what, in general, will these be?

5. Scheduled date(s) for submitting proposed licensing action and supporting information:

N/A

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:

N/A

UNIT 2 REFUELING INFORMATION (Continued)

7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool:
- (a) Core - 764 Fuel Assemblies
 - (b) Fuel Pool - 2164 Fuel Assemblies, 58 Fuel Rods
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:
- The spent fuel pool storage capacity has been relicensed for 3819 fuel assemblies.
9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present capacity:
- September 2003 without full core offload capability.
- September 1997 with full core offload capability.

UNIT 3 REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 3

2. Scheduled date for next refueling shutdown:

Reload 9 scheduled for September 11, 1993

3. Scheduled date for restart following refueling

Restart following refueling scheduled for November 14, 1993

4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?

Yes

If answer is yes, what, in general, will these be?

92-19 Change safety limit MLPR for Cycle 10
92-13 CAD analyzer replacement
93-01 ARTS/MELLA
93-06 Drywell Rad Monitors

5. Scheduled date(s) for submitting proposed licensing action and supporting information:

92-19 Submitted February 1993
92-13 Submitted February 1993
93-01 Submitted April 1993
93-06 Scheduled for April 1993

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:

- N/A

UNIT 3 REFUELING INFORMATION (Continued)

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

- (a) Core - 764 Fuel Assemblies
- (b) Fuel Pool - 1945 Fuel Assemblies, 6 Fuel Rods

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:

The spent fuel pool storage capacity has been relicensed for 3819 fuel assemblies.

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

September 2004 without full core offload capability.

September 1998 with full core offload capability.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE APRIL 15, 1993

COMPANY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON
SUPERVISOR
REPORTS GROUP
PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-7014 EXT. 3321

MONTH MARCH 1993

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1071	17	259
2	659	18	326
3	0	19	816
4	0	20	841
5	0	21	1067
6	0	22	1056
7	0	23	1071
8	0	24	1066
9	0	25	1075
10	0	26	1062
11	0	27	1063
12	0	28	1071
13	0	29	1067
14	0	30	1071
15	0	1	1071
16	0		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE APRIL 15, 1993

COMPANY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON

SUPERVISOR

REPORTS GROUP

PEACH BOTTOM ATOMIC POWER STATION

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MONTH MARCH 1993

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1054	17	770
2	1061	18	881
3	1033	19	1053
4	1055	20	1018
5	1041	21	1050
6	1047	22	1051
7	634	23	1021
8	0	24	1054
9	0	25	1058
10	0	26	1061
11	0	27	636
12	18	28	939
13	329	29	1045
14	568	30	1045
15	690	31	1070
16	772		

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE APRIL 15, 1993

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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SUPERVISOR

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PEACH BOTTOM ATOMIC POWER STATION

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OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 2
2. REPORTING PERIOD: MARCH, 1993
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): 1098
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES:

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):

10. REASONS FOR RESTRICTIONS, IF ANY:

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	2,160	164,280
12. NUMBER OF HOURS REACTOR WAS CRITICAL	449.8	1,593.8	99,977.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	401.0	1,460.0	95,109.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,192,262	4,590,331	284,960,075
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	388,000	1,506,800	93,679,190
18. NET ELECTRICAL ENERGY GENERATED (MWH)	374,380	1,461,797	89,748,516

 DATE APRIL 15, 1993

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	53.9	67.6	58.5
20. UNIT AVAILABILITY FACTOR	53.9	67.6	58.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	47.7	64.1	51.8
22. UNIT CAPACITY FACTOR (USING DER NET)	47.2	63.5	51.3
23. UNIT FORCED OUTAGE RATE	25.0	8.4	14.4

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY		09/16/73
INITIAL ELECTRICITY		02/18/74
COMMERCIAL OPERATION		07/05/74

OPERATING DATA REPORT

DOCKET NO. 50 - 278

DATE APRIL 15, 1993

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OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3
2. REPORTING PERIOD: MARCH, 1993
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): 1098
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1035

NOTES:

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:

9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):

10. REASONS FOR RESTRICTIONS, IF ANY:

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	2,160	160,176
12. NUMBER OF HOURS REACTOR WAS CRITICAL	644.0	2,060.0	100,118.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	625.0	2,041.0	96,738.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,844,011	6,482,580	285,063,790
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	596,100	2,125,200	93,565,332
18. NET ELECTRICAL ENERGY GENERATED (MWH)	576,188	2,061,646	89,725,612

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE APRIL 15, 1993

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	84.0	94.5	60.4
20. UNIT AVAILABILITY FACTOR	84.0	94.5	60.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	74.8	92.2	54.1
22. UNIT CAPACITY FACTOR (USING DER NET)	72.7	89.6	52.6
23. UNIT FORCED OUTAGE RATE	16.0	5.5	12.5

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

Refuel, 9/11/93 Start, 65 Days

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	-----	08/07/74
INITIAL ELECTRICITY	-----	09/01/74
COMMERCIAL OPERATION	-----	12/23/74

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE APRIL 15, 1993

REPORT MONTH MARCH, 1993

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
7	930302	F	0.0	A	4	N/A	HH	PUMPXX	CONDENSATE PUMP TRIP REACTOR NOT SHUTDOWN
8	930302	F	134.0	A	3	2-93-04	HH	PUMPXX	SECOND CONDENSATE PUMP TRIP
9	930308	S	209.0	H	4	N/A	ZZ	ZZZZZZ	MAINTENANCE OUTAGE
10	930318	F	0.0	A	4	N/A	CB	GENERA	RECIRC TACH GENERATOR FAILURE AND PUMP TRIP REACTOR NOT SHUTDOWN
11	930320	S	0.0	A	4	N/A	CB	MOTORX	RECIRC PUMP MOTOR OIL HIGH LEVEL REACTOR NOT SHUTDOWN
			343.0						

(1)

(2)

(3)

(4)

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 - OTHER (EXPLAIN)

EXHIBIT G - INSTRUCTIONS
 FOR PREPARATION OF DATA
 ENTRY SHEETS FOR LICENSEE
 EVENT REPORT (LER)
 FILE (NUREG-D161)

(5)

EXHIBIT I - SAME SOURCE

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE APRIL 15, 1993

REPORT MONTH MARCH, 1993

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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NO.	DATE	TYPE (1)	DURATION (HOURS) (2)	REASON (3)	METHOD OF SHUTTING DOWN REACTOR (4)	LICENSEE EVENT REPORT #	SYSTEM CODE (5)	COMPONENT CODE (6)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3	930307	S	0.0	A	4	N/A	HA	VALVOP	MASTER TRIP SOLENOID VALVE REPLACEMENT REACTOR NOT SHUT DOWN
4	930307	F	119.0	A	3	3-93-02	CH	PUMPXX	REACTOR FEED PUMP TRIPPED, OTHER PUMP FAILED TO START
5	930315	S	0.0	A	4	N/A	CH	PUMPXX	POWER LIMITED TO 75% DUE TO LOSS OF A REACTOR FEED PUMP REACTOR NOT SHUTDOWN
6	930320	S	0.0	H	4	N/A	HG	DEMINX	FILTER DEMIN REGENERATION REACTOR NOT SHUTDOWN
7	930327	S	0.0	H	4	N/A	CB	HTEXCH	RECIRC MG SET LUBE OIL COOLER CLEANING REACTOR NOT SHUTDOWN
			----- 119.0						

(1)

(2)

(3)

(4)

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 - OTHER (EXPLAIN)

EXHIBIT G - INSTRUCTIONS
FOR PREPARATION OF DATA
ENTRY SHEETS FOR LICENSEE
EVENT REPORT (LER)
FILE (NUREG-0161)

(5)

EXHIBIT I - SAME SOURCE