



PEACH BOTTOM—THE POWER OF EXCELLENCE

**PHILADELPHIA ELECTRIC COMPANY**

PEACH BOTTOM ATOMIC POWER STATION  
R. D. 1, Box 208  
Delta, Pennsylvania 17514  
(717) 456-7014

D. B. Miller, Jr.  
Vice President

February 14, 1991

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 January 1991 forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

*DBS* *AM* *MJB*  
DBM/AAF/TJN/DRM/MJB:cmc

Enclosure

- cc: R.A. Burricelli, Public Service Electric & Gas
- T.M. Gerusky, Commonwealth of Pennsylvania
- J.J. Lyash, USNRC Senior Resident Inspector
- R. McLean, State of Maryland
- T.T. Martin, Administrator, Region I, USNRC
- H.C. Schwemm, Atlantic Electric
- J. Urban, Delmarva Power
- INPO Records Center

CC0191.NRC

9102190146 910131  
PDR ADDCK 05000277  
R PDR

IE24  
11

NRC Monthly Operations Summary  
Peach Bottom Atomic Power Station  
January 1991

UNIT 2

The month began with Unit 2 at 100% power. Nominal 100% power was maintained until January 12, when a 68 day refueling outage began.

Refuel and related fuel-floor and undervessel activities are on the critical path. Condenser retube activities are near-critical path. Major modifications include the 2B LP turbine rotor replacement; core spray, HPCI, and RCIC check valve replacement; and installation of safety grade air supply to containment isolation valves.

Fuel handling started January 22. At month's end, 794 of 949 fuel moves were completed. Critical path activities, centered on fuel floor and undervessel work, are 5 days behind schedule. Efforts are continuing to recover schedule.

UNIT 3

The month began with Unit 3 at 100% power. Power was reduced to approximately 93% for a rod swap on January 12, and was returned to 100% the same day.

Power remained at 100% until January 16, when an automatic scram occurred. The cause of the scram was a generator lockout and turbine trip. The turbine trip occurred when the power supply to the cooling fans on the "3A" main transformer tripped, and the undervoltage relay for the backup power supply failed to function. Extensive testing was conducted and repairs were completed on January 21. The generator was synchronized to the grid the next day.

Power ascension was halted on January 23, because of high reactor water conductivity. Power was held at approximately 64% for maintenance on the "C2" waterbox; tube leaks in this waterbox were determined to be the cause of the chemistry problem. Repairs were completed and 100% power was reached by January 28.

Nominal 100% power was maintained for the remainder of the month.

UNIT 2 REFUELING INFORMATION

1. Name of facility:  

Peach Bottom Unit 2
  
2. Scheduled date for next refueling shutdown:
  - (1) Reload 8 in progress.
  - (2) Reload 9 scheduled for September 7, 1992.
  
3. Scheduled date for restart following refueling:
  - (1) Restart following refueling forecast for March 21, 1991.
  - (2) Restart following refueling forecast for November 22, 1992.
  
4. Will refueling or resumption of operation therefore require a technical specification change or other license amendment?
  - (1) Yes.
  - (2) Requirements for Reload 9 have not been determined.

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

  - (1) Safety limit MCPR for cycle 9 prior to resumption of operation.
  
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
  - (1) Submitted December 17, 1990.
  
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:

UNIT 2 REFUELING INFORMATION (Continued)

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

Following Reload 8:

- (a) Core - 764 Fuel Assemblies
- (b) Fuel Pool - 1894 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 8 scheduled for September 9, 1991

3. Scheduled date for restart following refueling

Restart following refueling scheduled for December 8, 1991

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?

Safety limit MCPR for cycle 9 fuel.

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

Submitted December 17, 1990.

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:

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 - 1496 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. Modification of the fuel pool is expected to be complete in the second quarter of 1991.

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

With the current fuel pool capacity (prior to the completion of the fuel pool rereacking modification):

September 1996 without full core offload capability.

End of next cycle with full core offload capability (est. January 1991).

With increased fuel pool capacity (subsequent to the completion of the fuel pool rereacking modification):

September 2004 without full core offload capability.

September 1998 with full core offload capability.



OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE FEBRUARY 15, 1991

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON  
SUPERVISOR  
REPORTS GROUP  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-7014 EXT. 3321

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 2
2. REPORTING PERIOD: JANUARY, 1991
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:

Unit is in refuel outage,  
scheduled to end March 21, 1991.

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 MONT.	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	744	145,320
12. NUMBER OF HOURS REACTOR WAS CRITICAL	264.4	264.4	86,965.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	264.4	264.4	83,849.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	855,720	855,720	247,272,783
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	284,000	284,000	81,292,290
18. NET ELECTRICAL ENERGY GENERATED (MWH)	273,403	273,403	77,826,049

DATE FEBRUARY 15, 1991

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	35.0	35.5	57.7
20. UNIT AVAILABILITY FACTOR	35.5	35.5	57.7
21. UNIT CAPACITY FACTOR (USING MDC NET)	34.8	34.8	50.8
22. UNIT CAPACITY FACTOR (USING DER NET)	34.5	34.5	50.3
23. UNIT FORCED OUTAGE RATE	0.0	0.0	14.3
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: March 21, 1991

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	-----	01/16/73
INITIAL ELECTRICITY	-----	02/18/74
COMMERCIAL OPERATION	-----	07/05/74



OPERATING DATA REPORT

DOCUMENT NO. 50 - 278

DATE FEBRUARY 15, 1991

COMPILED BY PHILADELPHIA ELECTRIC COMPANY

M. J. BARN  
SUPERVISOR  
REPORTS GROUP  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-7014 EXT. 3321

OPERATING STATUS

- |  |               |
|--|---------------|
| <p>1. UNIT NAME: PEACH BOTTOM UNIT 3</p> <p>2. REPORTING PERIOD: JANUARY, 1991</p> <p>3. LICENSED THERMAL POWER (MWT): 3293</p> <p>4. NAMEPLATE RATING (GROSS MWE): 1152</p> <p>5. DESIGN ELECTRICAL RATING (NET MWE): 1065</p> <p>6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1098</p> <p>7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1035</p> <p>8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:</p> <p>9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):</p> <p>10. REASONS FOR RESTRICTIONS, IF ANY:</p> | <p>NOTES:</p> |
|--|---------------|

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	744	141,216
12. NUMBER OF HOURS REACTOR WAS CRITICAL	624.5	624.5	85,627.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	601.7	601.7	82,692.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,827,600	1,827,600	241,680,106
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	600,400	600,400	79,275,932
18. NET ELECTRICAL ENERGY GENERATED (MWH)	580,867	580,867	75,957,539

OPERATING DATA REPORT (CONTINUED)

SOCKET NO. 40 - 278

DATE FEBRUARY 15, 1991

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	80.9	80.9	58.6
20. UNIT AVAILABILITY FACTOR	80.9	80.9	58.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	75.4	75.4	52.0
22. UNIT CAPACITY FACTOR (USING DER NET)	73.3	73.3	50.5
23. UNIT FORCED OUTAGE RATE	19.1	19.1	12.6
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:

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 FEBRUARY 15, 1991

REPORT MONTH JANUARY, 1991

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

M. J. BARN  
SUPERVISOR  
REPORTS GROUP  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-7014 EXT. 3321

NO.	DATE	TYPE (1)	DURATION (HOURS) (2)	REASON (3)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVLNT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
28	910111	S	479.6	C	2	N/A	ZZ	ZZZZZ	PLANNED REFUEL OUTAGE
			479.6						

(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)  
MEI, D  
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-011)

(5)  
EXHIBIT I - SAME SOURCE

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE FEBRUARY 15, 1991

REPORT MONTH JANUARY, 1991

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON  
SUPERVISOR  
REPORTS GROUP  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-7014 EXT. 3321

NO.	DATE	TYPE (1)	DURATION (HOURS) (2)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
21	910116	F	142.3	A	3	39101	EA	TRANSF	"A" PHASE TRANSFORMER COOLING FAN MOTOR SHORT CIRCUIT. REPLACED MOTOR AND CONTACTS.
			----- 142.3						

(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-0151)

(5)  
EXHIBIT I - SAME SOURCE

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE FEBRUARY 15, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (717) 456-7014 EXT. 3521

MONTH JANUARY 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1059	17	0
2	1066	18	0
3	1068	19	0
4	1067	20	0
5	1063	21	0
6	1063	22	0
7	1063	23	0
8	1062	24	0
9	1063	25	0
10	1058	26	0
11	683	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0	31	0
16	0		



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE FEBRUARY 15, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (717) 456-7014 EXT. 3321

MONTH JANUARY 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1066	17	0
2	1061	18	0
3	1071	19	0
4	1062	20	0
5	1066	21	0
6	1066	22	118
7	1066	23	544
8	1057	24	498
9	1062	25	614
10	1062	26	776
11	1057	27	968
12	1056	28	1059
13	1057	29	1061
14	1065	30	1066
15	1061	31	1066
16	549		