



PEACH BOTTOM—THE POWER OF EXCELLENCE

PHILADELPHIA ELECTRIC COMPANY

PEACH BOTTOM ATOMIC POWER STATION

R. D. 1, Box 208
Delta, Pennsylvania 17814

(717) 456-7014

D. B. Millet, Jr.
Vice President

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

Sincerely,

A handwritten signature in dark ink, appearing to read "D. B. Millet, Jr.", with a stylized flourish at the end.

^{6/15/91} DBM/AAF/TJN/DRM/MJB:cmc

Enclosure

cc: R.A. Burricelli, Public Service Electric & Gas
T.M. Gerasky, 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
J. Urban, Delmarva Power
INPO Records Center

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NRC Monthly Operations Summary
Peach Bottom Atomic Power Station
May 1991

UNIT 2

The unit began the month at nominal 100% power, but was shut down on May 2 for replacement of underground cables on the emergency power system. After replacement of the cables, the mode switch was moved to startup on May 18 and the generator was synchronized to the grid the following day. Power was held at nominal 25% until May 22 for LPRM gain calibration and replacement of a Travelling in-core Probe (TIP) detector. Power ascension was resumed on May 22 and progressed smoothly. The unit achieved nominal 100% power on May 23 and maintained that level until May 31, when power was reduced to nominal 82%. The reduction was made in compliance with NPDES permit limitations regarding thermal discharge. Four cooling towers were required to be in service for two-unit full power operation given river water temperatures at the time; only three cooling towers were available.

UNIT 3

The unit began the month at nominal 100% power and, like unit 2, was shut down on May 2 until replacement of the cables on the emergency power system was completed. The mode switch was placed in startup on May 24. Reactor power was held at nominal 1% until May 28 for replacement of a RCIC steam supply valve motor. Power ascension resumed on May 28 and the generator was synchronized to the grid the following day. An LPRM and a condenser vacuum problem caused power ascension to be halted on May 29. Power ascension was resumed the following day, after resolution of the LPRM and condenser vacuum concerns, and the unit achieved nominal 96% power by the end of the month.

UNIT 2 REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

Reload 9 scheduled for September 5, 1992.

3. Scheduled date for restart following refueling:

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?

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 - 1896 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 7, 1991

3. Scheduled date for restart following refueling

Restart following refueling scheduled for December 6, 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?

Revision to Reactor Vessel pressure temperature curves for Cycle 9 operation.

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:

Tech Spec Amendment on reactor vessel pressure temperature limits prior to startup for cycle 9. Request has been issued to NRC.

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 - 1689 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 reracking 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 reracking modification):
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 JUNE 15, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

M. J. BAPON

SUPERVISOR

REPORTS GROUP

PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-7014 EXT. 3321

MONTH MAY 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1053	17	0
2	239	18	0
3	0	19	144
4	0	20	170
5	0	21	156
6	0	22	302
7	0	23	933
8	0	24	1030
9	0	25	1050
10	0	26	1045
11	0	27	1041
12	0	28	1042
13	0	29	1046
14	0	30	1048
15	0	31	1011
16	0		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE JUNE 15, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON

SUPERVISOR

REPORTS GROUP

PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-7014 EXT. 3321

MONTH MAY 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	983	17	0
2	58	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	63
13	0	29	447
14	0	30	823
15	0	31	1009
16	0		

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE JUNE 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: MAY, 1991
3. LICENSED THERMAL POWER(MWT): 3290
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):
NO RESTRICTIONS

10. REASONS FOR RESTRICTIONS, IF ANY:
N/A

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	3,623	148,199
12. NUMBER OF HOURS REACTOR WAS CRITICAL	372.1	1,030.1	87,730.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	344.3	902.2	84,487.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	888,288	2,244,120	248,661,153
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	284,100	707,800	81,716,090
18. NET ELECTRICAL ENERGY GENERATED (MWH)	266,190	665,432	78,220,078

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277

DATE JUNE 15, 1991

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	46.3	24.0	57.0
20. UNIT AVAILABILITY FACTOR	46.3	24.9	57.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	33.9	17.4	50.0
22. UNIT CAPACITY FACTOR (USING DER NET)	33.6	17.2	49.6
23. UNIT FORCED OUTAGE RATE	53.7	30.7	14.6

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
NONE

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
NOT SHUT DOWN AT END OF REPORT PERIOD.

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 JUNE 15, 1991

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-7014 EXT. 3321

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3

2. REPORTING PERIOD: MAY, 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): 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):
NO RESTRICTIONS.

10. REASONS FOR RESTRICTIONS, IF ANY:
N/A

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	3,623	144,095
12. NUMBER OF HOURS REACTOR WAS CRITICAL	204.8	2,964.3	87,967.2
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	113.1	2,849.8	84,940.4
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	277,176	8,943,072	248,795,578
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	85,200	2,968,900	81,644,432
18. NET ELECTRICAL ENERGY GENERATED (MWH)	73,172	2,867,339	78,244,011

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE JUNE 15, 1991

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	15.2	78.7	58.9
20. UNIT AVAILABILITY FACTOR	15.2	78.7	58.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	9.5	78.5	52.5
22. UNIT CAPACITY FACTOR (USING DER NET)	9.2	74.3	51.0
23. UNIT FORCED OUTAGE RATE	84.8	21.3	12.9
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): 8TH REFUELING, SEPTEMBER 14 START, 84 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 JUNE 15, 1991

REPORT MONTH MAY, 1991

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON

SUPERVISOR

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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 (4)	LICENSEE EVENT REPORT #	SYSTEM CODE (5)	COMPONENT CODE (6)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3	910502	F	399.7	H	1	2-91-09	EG	ELECON	REACTOR SHUT DOWN TO REPAIR 25UF EMERGENCY AUX TRANSFORMER SECONDARY SIDE 4KV CABLES.
			----- 399.7						

(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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 276

UNIT NAME PEACH BOTTOM UNIT 3

DATE JUNE 15, 1991

REPORT MONTH MAY, 1991

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
6	910502	F	630.9	H	1	2-91-09	EG	ELECON	REACTOR SHUTDOWN TO REPAIR 250V EMERGENCY AUX TRANSFORMER SECONDARY SIDE 4KV CABLES.
			630.9						

(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