



PEACH BOTTOM—THE POWER OF EXCELLENCE

D. B. Miller, Jr.
Vice President

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PEACH BOTTOM ATOMIC POWER STATION

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(717) 456-7014

January 15, 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 December 1990 forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

T.A. Parker for D.B. Miller

AAF
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
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NRC Monthly Operations Summary
Peach Bottom Atomic Power Station
December 1990

UNIT 2

Unit 2 began the month at 100% power. Power was reduced on December 10 to facilitate repairs to the "A" reactor feed pump. Following the return to service of the "A" reactor feed pump, 100% power was achieved on December 12. Power was reduced to approximately 60% for a rod pattern adjustment on December 15 and was returned to 100% the following day.

Power was reduced to 75% for a short time on December 24 because of excessive generation on the PJM interconnection system, but was returned to 100% the same day.

End-of-cycle fuel coastdown required a power reduction to approximately 75% for control rod pattern adjustment on December 29. Power was returned to 100% the next day following the rod adjustment and remained there through the end of the month.

UNIT 3

Unit 3 began the month at 100% power, after recovering from repairs to the "C" reactor feed pump coupling. Power levels remained at 100% until December 11, when there was a brief 30 MWe reduction to support a control rod exercise.

Power was reduced to 49% on December 21 for control rod adjustment and to support repairs on the #1 Turbine Control Valve and the "A" outboard MSIV. The repairs were completed and 100% power was achieved on December 24.

Power level remained at 100% through the end of the month.

UNIT 2 REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

January 12, 1991

3. Scheduled date for restart following refueling:

March 21, 1991

4. Will refueling or resumption of operation therefore 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.

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

January 1991

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:

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 - 1734 Fuel Assemblies, 58 Fuel Rods

UNIT 2 REFUELING INFORMATION (Continued)

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 August 31, 1991

3. Scheduled date for restart following refueling

Restart following refueling scheduled for November 29, 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:

January 1991

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:

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

UNIT 3 REFUELING INFORMATION (Continued)

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 JANUARY 15, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

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MONTH DECEMBER 1990

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1071	17	1063
2	1075	18	1067
3	1062	19	1067
4	1070	20	1063
5	1071	21	1063
6	1066	22	1058
7	1066	23	1075
8	1070	24	985
9	1066	25	1054
10	1034	26	1067
11	953	27	1062
12	1058	28	1066
13	1062	29	946
14	1050	30	1064
15	848	31	1068
16	1044		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE JANUARY 15, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

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MONTH DECEMBER 1990

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1058	17	1058
2	1061	18	1066
3	1057	19	1058
4	1052	20	1062
5	1071	21	1017
6	1067	22	524
7	1059	23	783
8	1062	24	991
9	1058	25	1047
10	1066	26	1062
11	1058	27	1063
12	1062	28	1062
13	1062	29	1066
14	1066	30	1059
15	1050	31	1058
16	1066		

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE JANUARY 15, 1991

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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 REPORTS GROUP
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OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 2
2. REPORTING PERIOD: DECEMBER, 1990
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	8,760	144,576
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	7,173.4	86,700.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	6,979.8	83,585.1
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,395,416	21,120,640	246,417,033
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	799,700	6,948,400	81,008,290
18. NET ELECTRICAL ENERGY GENERATED (MWH)	778,382	6,699,797	77,554,646

DATE JANUARY 15, 1991

	<u>THIS MONTH</u>	<u>YR-TO-DATE</u>	<u>CUMULATIVE</u>
19. UNIT SERVICE FACTOR	100.0	79.7	57.8
20. UNIT AVAILABILITY FACTOR	100.0	79.7	57.8
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.2	72.5	50.8
22. UNIT CAPACITY FACTOR (USING DER NET)	98.2	71.8	50.4
23. UNIT FORCED OUTAGE RATE	0.0	13.4	14.4

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
REFUELING OUTAGE, STARTING JANUARY 12, LASTING 68 DAYS.

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		09/16/73
INITIAL ELECTRICITY		02/18/74
COMMERCIAL OPERATION		07/05/74

OPERATING DATA REPORT

DOCKET NO. 50 - 278

DATE JANUARY 15, 1991

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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: DECEMBER, 1990
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	8,760	140,472
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	7,844.1	85,002.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	7,688.4	82,090.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,373,264	23,689,637	239,852,506
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	788,200	7,803,400	78,675,532
18. NET ELECTRICAL ENERGY GENERATED (MWH)	766,824	7,534,104	75,376,672

DATE JANUARY 15, 1991

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	87.8	58.4
20. UNIT AVAILABILITY FACTOR	100.0	87.8	58.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.6	83.1	51.8
22. UNIT CAPACITY FACTOR (USING DER NET)	96.8	80.8	50.4
23. UNIT FORCED OUTAGE RATE	0.0	5.0	12.5
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 JANUARY 15, 1991

REPORT MONTH DECEMBER, 1990

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
24	901210	F	0.0	A	4	N/A	HH	MECFUN	2A REACTOR FEED PUMP COUPLING FAILED AND WAS REPLACED. REACTOR WAS NOT SHUT DOWN.
25	901215	S	0.0	H	4	N/A	RB	CONROD	CONTROL ROD PATTERN ADJUSTMENT. REACTOR WAS NOT SHUT DOWN.
26	901224	S	0.0	H	4	N/A	ZZ	ZZZZZZ	LOAD DROP PER LOAD DISPATCH REQUEST. REACTOR WAS NOT SHUT DOWN.
27	1229	S	0.0	H	4	N/A	RB	CONROD	CONTROL ROD PATTERN ADJUSTMENT. REACTOR WAS NOT SHUT DOWN.

(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
J - 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-0161)

(5)

EXHIBIT I - SAME SOURCE

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE JANUARY 15, 1991

REPORT MONTH DECEMBER, 1990

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
20	901221	S	0.0	B	4	N/A	XX	VALVEX	B6AOUTBOARD MSIV SEAL LEAK REPAIR. REACTOR WAS NOT SHUT DOWN.

(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 (LFR)
FILE (NUREG-0161)

(5)
EXHIBIT I - SAME SOURCE