



**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

Smith  
resident

October 13, 1989

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 September 1989 forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

<sup>LVTB</sup>  
DMS/TEC/MJB:cmc

Enclosure <sup>14</sup>

cc: R.A. Burricelli, Public Service Electric & Gas  
T.M. Gerusky, Commonwealth of Pennsylvania  
T.P. Johnson, USNRC Senior Resident Inspector  
T.E. Magette, State of Maryland  
W.T. Russell, Administrator, Region I, USNRC  
H.C. Schwemm, Atlantic Electric  
J. Urban, Delmarva Power  
INPO Records Center

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PEACH BOTTOM—THE POWER OF EXCELLENCE

D. M. Smith  
Vice President

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**NRC Monthly Operations Summary  
Peach Bottom Atomic Power Station  
September 1989**

**UNIT 2**

Unit 2 began this reporting period at 100% power, 3273 MWt, and 1073 MWe.

Unit power was reduced to 70% power on 9/3/89 to perform Main Turbine valve testing. Unit power was returned to 100% after the testing was completed.

Unit power was reduced to 80% on 9/16/89 because of high feedwater copper content (greater than .4 ppb). Feedwater copper content was reduced to a level acceptable for 100% power operation (less than .3 ppb) on 9/20/89. Unit power increase were stopped at 90% because the 'C' Reactor Feed pump controls were not as stable as expected. Further investigation indicated that the control problem was minor and 100% power operation was acceptable with the 'C' Reactor Feed pump. The Unit was returned to 100% and a plan was developed to correct the 'C' Reactor Feed pump in a few weeks.

HPCI was removed from service on 9/26/89 to correct a problem with the 'Overspeed Trip Reset' mechanism. The overspeed tripped properly but did not always auto reset after a trip occurred. HPCI was operable with this condition, however repairs were made to correct the problem and HPCI was returned to service on 9/28/89.

Unit 2 ended this reporting period at 99% power, 3258 MWt, and 1082 MWe.

**UNIT 3**

The unit remained shut down during the report period with modification activities in progress.

UNIT 2 REFUELING INFORMATION

1. Name of facility:  
Peach Bottom Unit 2
2. Scheduled date for next refueling shutdown:  
Reload 8 scheduled for January 6, 1991
3. Scheduled date for restart following refueling:  
Restart following refueling scheduled for April 6, 1991
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:  
Not applicable.
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:  
In order for PECO to do reload licensing analyses in-house for Unit 2 Cycle 9, NRC approval of two reports (PECO-FMS-005 and 006) must be obtained by May 31, 1990. These reports are the last two in a series of six reports to demonstrate PECO's ability to perform the analyses. Both reports have been submitted and are scheduled for completion in May 1990.
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:
  - (1) Reload 7 in progress
  - (2) Reload 8 scheduled for August 31, 1991
3. Scheduled date for restart following refueling
  - (1) Restart following refueling forecast for October 27, 1989
  - (2) Restart following refueling scheduled for October 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?
  - (1) Cycle 8 Reload Amendment
  - (2) Rod Sequence Control System / Rod Worth Minimizer Amendment
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
  - (1) Cycle 8 Reload License Amendment submitted July 1988
  - (2) Rod Sequence Control System / Rod Worth Minimizer modification to reduce start-up time, submitted July 1989.
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:  
None expected.

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. This modification began on February 20, 1987. The completion date for this modification has been rescheduled for the first quarter of 1990 to accommodate the Unit 3 outage.
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 rerecking 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 rerecking 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 OCTOBER 15, 1989

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (717) 456-7014 EXT. 3321

MONTH SEPTEMBER 1989

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1051	17	831
2	1047	18	825
3	909	19	830
4	1044	20	873
5	1049	21	929
6	1055	22	1014
7	1051	23	1006
8	1065	24	1039
9	1032	25	1058
10	1038	26	1049
11	1046	27	1063
12	1050	28	1059
13	1054	29	1072
14	1047	30	1047
15	1058		
16	945		



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE SEPTEMBER 15, 1989

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (717) 456-7014 EXT. 3321

MONTH SEPTEMBER 1989

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0	17	0
2	0	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	0
13	0	29	0
14	0	30	0
15	0		
16	0		

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE OCTOBER 15, 1989

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: SEPTEMBER, 1989
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): 1051

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	720	6,551	133,607
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	3,440.6	77,637.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	720.0	2,921.9	74,788.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,268,936	6,863,112	219,673,857
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	752,700	2,181,060	72,200,290
18. NET ELECTRICAL ENERGY GENERATED (MWH)	725,607	2,067,399	69,059,515

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277

DATE OCTOBER 15, 1989

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	44.6	56.0
20. UNIT AVAILABILITY FACTOR	100.0	44.6	56.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	95.9	30.0	49.2
22. UNIT CAPACITY FACTOR (USING DER NET)	94.6	29.6	48.5
23. UNIT FORCED OUTAGE RATE	0.0	7.4	14.4
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): MAINTENANCE OUTAGE, 3/1/90, 20 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

DOCKFT NO. 50 - 278

DATE SEPTEMBER 15, 1989

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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TELEPHONE (717) 456-7014 EXT. 3321

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3
2. REPORTING PERIOD: SEPTEMBER, 1989
3. LICENSED THERMAL POWER(MWT): 3293
4. NAMEPLATE RATING (GROSS MWE): 1192
5. DESIGN ELECTRICAL RATING (NET MWE): 1065
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1098
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1035

NOTES: UNIT 3 REMAINED SHUT DOWN  
WITH MODIFICATION  
ACTIVITIES IN PROGRESS.

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	720	6,551	129,503
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0	0	76,357.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	0.0	73,929.3
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0	0	215,278,901
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	0	70,611,432
18. NET ELECTRICAL ENERGY GENERATED (MWH)	* -6,956	* -4,171	67,605,984

\* NEGATIVE GENERATION PROVIDED FOR CONSISTENCY WITH FERC REPORTS.

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE SEPTEMBER 15, 1989

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	0.0	0.0	57.1
20. UNIT AVAILABILITY FACTOR	0.0	0.0	57.1
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	50.4
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	49.0
23. UNIT FORCED OUTAGE RATE	0.0	0.0	13.3
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: NOVEMBER 15, 1989

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 OCTOBER 15, 1989

REPORT MONTH SEPTEMBER, 1989

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

M. J. BARON  
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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
10	890903	S	021.0	B	4	N/A	CD	VALVEX	MSIV TESTING REACTOR WAS NOT SHUT DOWN
11	890916	F	095.5 ----- 116.5	H	4	N/A	HH	ZZZZZ	HIGH COPPER CONCENTRATION REACTOR WAS NOT SHUT DOWN

- |  |   |  |   |
|--|---|--|---|
| <p>(1)</p> <p>F - FORCED<br/>S - SCHEDULED</p> | <p>(2)</p> <p>REASON<br/>A - EQUIPMENT FAILURE (EXPLAIN)<br/>B - MAINTENANCE OR TEST<br/>C - REFUELING<br/>D - REGULATORY RESTRICTION<br/>E - OPERATOR TRAINING + LICENSE EXAMINATION<br/>F - ADMINISTRATIVE<br/>G - OPERATIONAL ERROR (EXPLAIN)<br/>H - OTHER(EXPLAIN)</p> | <p>(3)</p> <p>METHOD<br/>1 - MANUAL<br/>2 - MANUAL SCRAM.<br/>3 - AUTOMATIC SCRAM.<br/>4 - OTHER (EXPLAIN)</p> | <p>(4)</p> <p>EXHIBIT G - INSTRUCTIONS<br/>FOR PREPARATION OF DATA<br/>ENTRY SHEETS FOR LICENSEE<br/>EVENT REPORT (LER)<br/>FILE (NUREG-0161)</p> <p>(5)</p> <p>EXHIBIT I - SAME SOURCE</p> |
|--|---|--|---|

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 2

DATE SEPTEMBER 15, 1989

REPORT MONTH SEPTEMBER, 1989

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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	890901	S	720.0 ----- 720.0	C	1	N/A	RC	FUELXX	CONTINUATION OF REFUEL OUTAGE

(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-0161)

(5)

EXHIBIT I - SAME SOURCE