



# PECO NUCLEAR

A UNIT OF PECO ENERGY

PECO Energy Company  
1848 Lay Road  
Delta, PA 17314-9032  
717 456 7014

March 15, 1996

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

Docket Nos. 50-277 and 50-278

Gentlemen:

Enclosed is the monthly operating report for Peach Bottom Units 2 and 3 for the month of February 1996 forwarded pursuant to Technical Specification 5.6.4 under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

Gerald R. Rainey  
Vice President,  
Peach Bottom Atomic Power Station

*JWA JGH*  
GRR/MEW/JGH/mdk

Enclosures

- cc: B. W. Gorman, Public Service Electric & Gas
- W. P. Dornsife, Commonwealth of Pennsylvania
- R. I. McLean, State of Maryland
- T. T. Martin, Administrator, Region 1, USNRC
- W. L. Schmidt, USNRC, Senior Resident Inspector
- H. C. Schwemm, Atlantic Electric
- A. F. Kirby, III, Delmarva Power & Light
- INPO Records Center

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PEACH BOTTOM ATOMIC POWER STATION  
NRC MONTHLY OPERATIONS SUMMARY  
FEBRUARY 1996

UNIT 2

Unit 2 began the month of February at 100% power. Unit 2 losses included a broken HCU hand valve on Feb. 3 and icing of screens on Feb. 5. The unit operated at 100% power for the rest of the month except for two load drops for two rod pattern adjustments made on Feb. 23 and 28.

Unit 2 net generation for February was 773,501 MW.

UNIT 3

Unit 3 began the month of February at 100% power. On Feb. 2 a load drop for water box cleaning commenced. Later on Feb. 2, while increasing in power, a main generator hydrogen leak was discovered. Repairs were made and the unit returned to 100% power on Feb. 5. Upon reaching 100%, a relay dropped out giving a half scram indication. Power maneuvers were stopped in order to determine the source of the half scram. The build up of Xenon caused a small reduction of power. The unit remained at 100% power for the rest of the month with the exception of three load drops made for rod pattern adjustments on Feb 8, 23, and 28.

Unit 3 net generation for February was 697,977 MW.

UNIT 2 REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

Reload 11 scheduled for September 13, 1996.

3. Scheduled date for restart following refueling:

Restart following refueling forecast for October 20, 1996.

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?

1. Wide Range Neutron Monitoring System
2. 10CFR50 Appendix J, Option B
3. Increase MCPR Value

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

Items 1 and 2 have been submitted; Item 3 is expected to be submitted within the next month.

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:

GE-13 Fuel Product Line will be utilized requiring a Tech Spec amendment.

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 - 2436 Fuel Assemblies, 52 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 2004 without full core offload capability.

September 1998 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 11 scheduled for September 15, 1997
3. Scheduled date for restart following refueling  
Restart following refueling scheduled for October 20, 1997
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?  
N/A  
If answer is yes, what, in general, will these be?
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
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
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 - 2485 Fuel Assemblies, 16 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.

UNIT 3 REFUELING INFORMATION (Continued)

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 1999 with full core offload capability.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE MARCH 6, 1996

COMPANY PECO ENERGY COMPANY

L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-4383

MONTH FEBRUARY 1996

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWE-NET) |
|-----|--|-----|--|
| 1   | 1114                                   | 17  | 1114                                   |
| 2   | 1121                                   | 18  | 1118                                   |
| 3   | 1096                                   | 19  | 1114                                   |
| 4   | 1116                                   | 20  | 1114                                   |
| 5   | 989                                    | 21  | 1114                                   |
| 6   | 1119                                   | 22  | 1110                                   |
| 7   | 1115                                   | 23  | 1112                                   |
| 8   | 1119                                   | 24  | 1120                                   |
| 9   | 1123                                   | 25  | 1116                                   |
| 10  | 1119                                   | 26  | 1115                                   |
| 11  | 1119                                   | 27  | 1115                                   |
| 12  | 1114                                   | 28  | 1112                                   |
| 13  | 1119                                   | 29  | 1115                                   |
| 14  | 1119                                   |     |  |
| 15  | 1123                                   |     |  |
| 16  | 1114                                   |     |  |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE MARCH 6, 1996

COMPANY PECO ENERGY COMPANY

L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-4383

MONTH FEBRUARY 1996

| DAY | AVERAGE DAILY POWER LEVEL<br>(MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL<br>(MWE-NET) |
|-----|--|-----|--|
| 1   | 1113                                   | 17  | 1122                                   |
| 2   | 444                                    | 18  | 1122                                   |
| 3   | 0                                      | 19  | 1126                                   |
| 4   | 11                                     | 20  | 1122                                   |
| 5   | 834                                    | 21  | 1131                                   |
| 6   | 1096                                   | 22  | 1118                                   |
| 7   | 1120                                   | 23  | 1106                                   |
| 8   | 1103                                   | 24  | 1000                                   |
| 9   | 1073                                   | 25  | 1122                                   |
| 10  | 1127                                   | 26  | 1122                                   |
| 11  | 1118                                   | 27  | 1130                                   |
| 12  | 1126                                   | 28  | 1085                                   |
| 13  | 1126                                   | 29  | 1122                                   |
| 14  | 1122                                   |     |  |
| 15  | 1127                                   |     |  |
| 16  | 1122                                   |     |  |



OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE MARCH 6, 1996

COMPLETED BY PECO ENERGY COMPANY

L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4383

OPERATING STATUS

- 1. UNIT NAME: PEACH BOTTOM UNIT 2
- 2. REPORTING PERIOD: FEBRUARY, 1996
- 3. LICENSED THERMAL POWER(MWT): 3458
- 4. NAMEPLATE RATING (GROSS MWE): 1221
- 5. DESIGN ELECTRICAL RATING (NET MWE): 1119
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1159
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1093

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               | 696        | 1,440      | 189,840     |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL    | 696.0      | 1,440.0    | 124,035.5   |
| 13. REACTOR RESERVE SHUTDOWN HOURS          | 0.0        | 0.0        | 0.0         |
| 14. HOURS GENERATOR ON-LINE                 | 696.0      | 1,440.0    | 120,041.2   |
| 15. UNIT RESERVE SHUTDOWN HOURS             | 0.0        | 0.0        | 0.0         |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)    | 2,391,703  | 4,855,550  | 362,431,593 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 795,400    | 1,614,000  | 119,153,790 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)   | 773,501    | 1,569,969  | 114,375,864 |

DATE MARCH 6, 1996

|  | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|--|------------|------------|------------|
| 19. UNIT SERVICE FACTOR                  | 100.0      | 100.0      | 63.2       |
| 20. UNIT AVAILABILITY FACTOR             | 100.0      | 100.0      | 63.2       |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 101.7      | 99.7       | 57.1       |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 99.3       | 97.4       | 56.3       |
| 23. UNIT FORCED OUTAGE RATE              | 0.0        | 0.0        | 12.1       |

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 MARCH 6, 1996

COMPLETED BY PECO ENERGY COMPANY

L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4383

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3
2. REPORTING PERIOD: FEBRUARY, 1996
3. LICENSED THERMAL POWER(MWT): 3458
4. NAMEPLATE RATING (GROSS MWE): 1221
5. DESIGN ELECTRICAL RATING (NET MWE): 1119
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1159
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1093

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               | 696        | 1,440      | 185,736     |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL    | 696.0      | 1,440.0    | 122,727.2   |
| 13. REACTOR RESERVE SHUTDOWN HOURS          | 0.0        | 0.0        | 0.0         |
| 14. HOURS GENERATOR ON-LINE                 | 646.0      | 1,390.0    | 119,198.2   |
| 15. UNIT RESERVE SHUTDOWN HOURS             | 0.0        | 0.0        | 0.0         |
| 16. GROSS THERMAL ENERGY GENERATED (MWH)    | 2,193,286  | 4,704,550  | 354,391,008 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 716,200    | 1,550,600  | 116,170,032 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH)   | 697,977    | 1,511,480  | 111,525,332 |

DATE MARCH 6, 1996

|  | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|--|------------|------------|------------|
| 19. UNIT SERVICE FACTOR                  | 92.8       | 96.5       | 64.2       |
| 20. UNIT AVAILABILITY FACTOR             | 92.8       | 96.5       | 64.2       |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 91.8       | 96.0       | 57.9       |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 89.6       | 93.8       | 56.3       |
| 23. UNIT FORCED OUTAGE RATE              | 7.2        | 3.5        | 11.0       |

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                                       |          | 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 MARCH 6, 1996

REPORT MONTH FEBRUARY, 1996

COMPLETED BY PECO ENERGY COMPANY

L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4383

| NO. | DATE   | TYPE<br>(1) | DURATION<br>(HOURS)<br>(2) | REASON<br>(2) | METHOD OF<br>SHUTTING DOWN<br>REACTOR (3) | LICENSEE<br>EVENT<br>REPORT # | SYSTEM<br>CODE<br>(4) | COMPONENT<br>CODE<br>(5) | CAUSE AND CORRECTIVE<br>ACTION TO<br>PREVENT RECURRENCE                      |
|-----|--------|-------------|----------------------------|---------------|---|-------------------------------|-----------------------|--------------------------|--|
| 4   | 960203 | F           | 8.0                        | A             | 4   |                               | RB                    | CRDRVE                   | HCU VALVE BROKEN<br>REACTOR NOT SHUT DOWN                                    |
| 5   | 960205 | F           | 18.0                       | H             | 4   |                               | HF                    | XXXXXX                   | ICING OF INTAKE SCREENS<br>ONE CIRC PUMP IN SERVICE<br>REACTOR NOT SHUT DOWN |
| 6   | 960223 | S           | 2.0                        | H             | 4   |                               | RB                    | CONROD                   | ROD PATTERN ADJUSTMENT<br>REACTOR NOT SHUT DOWN                              |
| 7   | 960228 | S           | 3.0                        | H             | 4   |                               | RB                    | CONROD                   | ROD PATTERN ADJUSTMENT<br>REACTOR NOT SHUT DOWN                              |
|     |        |             | -----<br>31.0              |               |   |                               |                       |                          |  |

(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 6 - 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 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE MARCH 6, 1996

REPORT MONTH FEBRUARY, 1996

COMPLETED BY PECO ENERGY COMPANY

L. P. HYDRICK  
BUSINESS SERVICES  
SITE SUPPORT DIVISION  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-4383

| NO. | DATE   | TYPE<br>(1) | DURATION<br>(HOURS) | REASON<br>(2) | METHOD OF<br>SHUTTING DOWN<br>REACTOR (3) | LICENSEE<br>EVENT<br>REPORT # | SYSTEM<br>CODE<br>(4) | COMPONENT<br>CODE<br>(5) | CAUSE AND CORRECTIVE<br>ACTION TO<br>PREVENT RECURRENCE  |
|-----|--------|-------------|---------------------|---------------|---|-------------------------------|-----------------------|--------------------------|--|
| 2   | 960202 | S           | 14.0                | B             | 4   |                               | HC                    | XXXXXX                   | CLEAN CONDENSER WATERBOXES<br>REACTOR NOT SHUTDOWN       |
| 3   | 960202 | F           | 50.0                | A             | 4   |                               | HA                    | GENERA                   | MAIN GENERATOR HYDROGEN LEAK<br>REACTOR NOT SHUTDOWN     |
| 4   | 960205 | F           | 15.0                | A             | 4   |                               | HA                    | RELAYX                   | 5A RELAY DROPPED OUT<br>REACTOR NOT SHUTDOWN             |
| 5   | 960208 | S           | 6.0                 | H             | 4   |                               | RB                    | CONROD                   | ROD PATTERN ADJUSTMENT<br>REACTOR NOT SHUTDOWN           |
| 6   | 960223 | S           | 6.0                 | H             | 4   |                               | RB                    | CONROD                   | ROD PATTERN ADJUSTMENT<br>REACTOR NOT SHUTDOWN           |
| 7   | 960228 | F           | 10.0                | H             | 4   |                               | RB                    | CONROD                   | 343 S/U & ROD PATTERN ADJUSTMENT<br>REACTOR NOT SHUTDOWN |
|     |        |             | 101.0               |               |   |                               |                       |                          |  |

(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