



**PECO NUCLEAR**

A UNIT OF PECO ENERGY

PECO Energy Company  
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717 456 7014

November 7, 1996

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 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 October 1996 forwarded pursuant to Technical Specification 5.6.4 under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

Mark E. Warner  
Director, Site Engineering  
Peach Bottom Atomic Power Station

JGH  
MEW/JGH:lpb

Enclosures

cc: B.W. Gorman, Public Service Electric & Gas  
W.P. Domsife, Commonwealth of Pennsylvania  
R.I. McLean, State of Maryland  
T.T. Martin, Administrator, Region I, USNRC  
W.L. Schmidt, USNRC, Senior Resident Inspector  
H.C. Schwemm, Atlantic Electric  
A.F. Kirby, III, Delmarva Power & Light  
INPO Records Center  
T. N. Mitchell, PECO Nuclear, Vice President, Peach Bottom Atomic Power Station

ccn 96-14086

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PEACH BOTTOM ATOMIC POWER STATION  
NRC MONTHLY OPERATIONS SUMMARY  
OCTOBER 1996

**UNIT 2**

At the beginning of October, Unit 2 was completing the 2R11 Refueling Outage. Power ascension began on 10/3/96. Power ascension was delayed due to problems associated with 'B' RFP high vibration on 10/5/96. The Unit then returned to power ascension. At ~ 84% power on 10/6/96 a scram occurred. The scram was due to the Main Generator negative phase sequence relay operation, resulting in Main Generator Lock-out. The Unit was off-line until 10/7/96. The Unit reached ~ 93% power on 10/8/96 when high temperature was detected on the #12 Turbine bearing. The Generator was then taken off-line for repair. Power ascension began on 10/11/96. The Unit reached full power but required an additional rod pattern adjustment. The rod pattern adjustment soak began on 10/12/96 and rods were adjusted on 10/15/96. The Unit was ascending in power on 10/15/96 when a scram occurred due to the Main Generator negative phase sequence relay operation, resulting in Main Generator Lock-out. The Unit was off-line until 10/18/96 and reached full power on 10/20/96. An additional rod pattern adjustment was made late on 10/22/96 and the Unit was at full power on 10/23/96. The Unit remained at full power for the duration of the month.

Unit 2 net generation for October was 495,204 MWH

**UNIT 3**

Unit 3 began the month of October at 100% power. Unit 3 Megawatt losses included a planned load drop on 10/25/96 that involved a deep shallow exchange, MSIV testing, 3A Recirc MG Set Brush replacement, and Condenser waterbox cleaning. The Unit returned to full power on 10/27/96. On 10/29/96 an unplanned load dropped occurred due to Recombiner isolation. The Unit returned to full power on 10/30/96. The Unit remained at 100% power for the rest of the month.

Unit 3 net generation for October was 821,917 MWH.

UNIT 2 REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

Reload 12 is scheduled for September 15, 1998.

3. Scheduled date for restart following refueling:

Restart following refueling forecast for October 10, 1998.

4. Will refueling or resumption of operation therefore require a technical specification change or other license amendment?

N/A

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

N/A

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:

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 - 2720 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 2002 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 12, 1997

3. Scheduled date for restart following refueling

Restart following refueling scheduled for October 11, 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 POWER LEVEL

DOCKET NO. 50 - 277  
 UNIT PEACH BOTTOM UNIT 2  
 DATE NOVEMBER 13, 1996  
 COMPANY PECO ENERGY COMPANY  
 L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4363

MONTH OCTOBER, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

1	0
2	0
3	168
4	331
5	730
6	108
7	178
8	859
9	341
10	0
11	156
12	980
13	1013
14	988
15	824
16	0

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

17	0
18	33
19	703
20	1093
21	1095
22	1087
23	991
24	1115
25	1127
26	1119
27	1129
28	1127
29	1112
30	1121
31	1123

# AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 278  
 UNIT PEACH BOTTOM UNIT 3  
 DATE NOVEMBER 13, 1996  
 COMPANY PECO ENERGY COMPANY  
 L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4383

MONTH OCTOBER, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

1	1113
2	1113
3	1114
4	1115
5	1124
6	1111
7	1116
8	1120
9	1117
10	1122
11	1121
12	1126
13	1126
14	1126
15	1130
16	1114

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

17	1118
18	1117
19	1127
20	1133
21	1101
22	1117
23	1115
24	1117
25	1092
26	816
27	1121
28	1127
29	958
30	1115
31	1117



# OPERATING DATA REPORT

DOCKET NO. 50 - 277  
 DATE NOVEMBER 13, 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: OCTOBER, 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 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	745	7,320	195,720
12. NUMBER OF HOURS REACTOR WAS CRITICAL	691.0	6,856.0	129,451.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	547.0	6,712.0	125,313.2
15. UNIT RESERVE SHUTDC'WN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,618,174	19,345,452	376,921,495
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	513,400	6,242,500	123,782,290
18. NET ELECTRICAL ENERGY GENERATED (MWH)	495,204	6,016,312	118,822,207

# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277

DATE NOVEMBER 13, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	73.4 %	91.7 %	64.0 %
20. UNIT AVAILABILITY FACTOR	73.4 %	91.7 %	64.0 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	60.8 %	75.2 %	57.4 %
22. UNIT CAPACITY FACTOR (USING DER NET)	59.4 %	73.4 %	56.6 %
23. UNIT FORCED OUTAGE RATE	20.7 %	2.1 %	11.8 %

24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH):

25. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATIONS):	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 NOVEMBER 13, 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: OCTOBER, 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 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	745	7,320	191,616
12. NUMBER OF HOURS REACTOR WAS CRITICAL	745.0	7,231.1	128,518.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	745.0	7,163.0	124,971.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,537,866	24,280,153	373,966,610
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	845,100	8,023,100	122,642,532
18. NET ELECTRICAL ENERGY GENERATED (MWH)	821,917	7,793,635	117,807,488

# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE NOVEMBER 13, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0 %	97.9 %	65.2 %
20. UNIT AVAILABILITY FACTOR	100.0 %	97.9 %	65.2 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	100.9 %	97.4 %	59.1 %
22. UNIT CAPACITY FACTOR (USING DER NET)	98.6 %	95.1 %	57.5 %
23. UNIT FORCED OUTAGE RATE	.0 %	2.1 %	10.6 %

24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH):

25. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATIONS):

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 NOVEMBER 13, 1996  
 COMPLETED BY PECO ENERGY COMPANY  
 L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4383

REPORT MONTH OCTOBER, 1996

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
19	961001	S	51.0	H	2		ZZ	ZZZZZZ	Refuel Outage - 2R11 (shut down) Duration shown only for shut downs
20	961005	F		A	4		CH	PUMPXX	Reactor feed pump "B" high vibration (power reduction)
21	961005	S		H	4		ZZ	ZZZZZZ	Power ascension following refuel outage (power reduction)
22	961006	F	33.1	A	3		HA	RELAYX	Main generator negative phase relay operation (shut down)
23	961008	F	48.0	A	4		HA	TURBIN	Turbine bearing (#12) high temp (shut down)
24	961013	S		H	4		RB	CONROD	Rod Pattern Adjustment (power reduction)
25	961015	F	65.9	A	3		HA	RELAYX	Main generator negative phase relay operation (shut down)
26	961022	S		H	4		RB	CONROD	Rod Pattern Adjustment (power reduction)
TOTAL HOURS			198.0						

(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

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278  
 UNIT NAME PEACH BOTTOM UNIT 3  
 DATE NOVEMBER 13, 1996  
 COMPLETED BY PECO ENERGY COMPANY  
 L. P. HYDRICK  
 BUSINESS SERVICES  
 SITE SUPPORT DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4383

REPORT MONTH OCTOBER, 1996

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
21	961025	S		B	4		CD	VALVEX	MSIV Testing, Deep shallow exchange (power reduction) Duration shown only for shut downs
22	961029	F		H	4		HC	RECOMB	Recombiner isolation (power reduction)
TOTAL HOURS									

(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