



# PECO NUCLEAR

A Unit of PECO Energy

PECO Energy Company  
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717 456 7014

June 6, 2000

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 May 2000 forwarded pursuant to Technical Specification 5.6.4 under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

Gordon L. Johnston  
Director, Site Engineering  
Peach Bottom Atomic Power Station

GLJ/CHM/TEG/CSL:cms  
*Chris T. G.*

Enclosures

cc:     Manager, Financial Controls & Co-owner Affairs, Public Service Electric & Gas  
       R. R. Janati, Commonwealth of Pennsylvania  
       R.I. McLean, State of Maryland  
       H. J. Miller, Administrator, Region I, USNRC  
       A.C. McMurtray, USNRC, Senior Resident Inspector  
       A.F. Kirby, III, Delmarva Power & Light  
       INPO Records Center

*CSL*

ccn 00-14052

*NRR-063*

*IE24*

*FOR...*

Peach Bottom Atomic Power Station  
Unit 2  
May 1 through May 31, 2000

Narrative Summary of Operating Experiences

Unit 2 began the month of May at 100% power.

The unit reduced power to 90% starting at 2000 on May 7 while the 2A circ pump was removed from service due to an upper guide bearing high temp alarm. Following investigation and corrective action, the unit returned to 100% power by 1200 on May 8.

The unit reduced power to 67% starting at 2237 on May 15 for replacement of the 2B circ water pump inlet screen. Also during this load drop, the B feedwater heater string was removed from service, due to leaking tubes in the 2B feedwater heater. The unit returned to 85% power by 0430 on 5/16.

The unit further reduced power starting on May 19, and was tripped at 0505 on May 19, to repair the leaking 2B feedwater heater tubes. The reactor was shutdown at 0626, on May 19. Following repair of the feedwater heater tubes, the reactor achieved critical operation at 1741 on May 20. The turbine was synchronized at 1055 on May 21.

During the startup following the outage, a steam leak was discovered in the cross around piping. The turbine was tripped at 1258 on May 22, and the leak was repaired. The unit returned to 100% power by 1900 on May 23.

Unit 2 ended the month of May at 100% power.

Peach Bottom Atomic Power Station  
Unit 3  
May 1 through May 31, 2000

Narrative Summary of Operating Experiences

Unit 3 began the month of May at 100% power.

The unit reduced power to 35% starting at 1335 on May 10, due to a low lube oil level alarm on the 3B recirc pump. The pump was shutdown at 1436 on May 10.

The unit reduced power to 18.5% following the power reduction for the loss of the 3B recirc pump, for planned maintenance. The planned load drop was scheduled for 1800 on May 10 and included replacement of the inboard MSIV DC solenoids, cleaning of the condenser waterboxes, and cleaning of the generator stator water cooler heat exchangers. The unit returned to 100% power by 0625 on May 13.

The unit reduced power to 83% starting at 2333 on May 13 for a planned control rod pattern adjustment. The unit returned to 100% power by 0205 on May 14.

Unit 3 ended the month of May at 100% power.

**UNIT 2 REFUELING INFORMATION**

1. Name of facility:  

Peach Bottom Unit 2
  
2. Scheduled date for next refueling shutdown:  

Reload 13 is scheduled for September 8, 2000.
  
3. Scheduled date for restart following refueling:  

Restart following refueling forecast for October 8, 2000.
  
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. Power Range Monitor Modification to be implemented during 2R13.
  2. Cycle 14 Safety Limit MCPR Change.
  3. Reduction in the amount of Tech. Spec. required excess flow check valve testing.
  
5. Scheduled date(s) for submitting proposed licensing action and supporting information:
  1. Power Range Monitor Modification was reviewed and approved for Unit 3. Submittal of final Tech Spec pages for Unit 2 for NRC approval is scheduled for June, 2000.
  2. Cycle 14 MCPR is scheduled for submittal in July, 2000.
  3. Excess flow check valve testing change was submitted in May, 2000.
  
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:
  - a. The reload includes 292 GE-14 bundles. This will be the first reload of GE-14 fuel.

**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 - 3012 Fuel Assemblies, 52 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 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 13 is scheduled for October 5, 2001.
  
3. Scheduled date for restart following refueling  

Restart following refueling is scheduled by November 4, 2001
  
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.  

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:  

(a) The last refueling outage's reload included 276 GE-13 bundles which replaced an equal number of GE-11 bundles. This was the second reload of GE-13 fuel for the unit.
  
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 - 3053 Fuel Assemblies, 16 Fuel Rods  
( one of the 3053 is a skeleton which contains less than a full complement of 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.

# OPERATING DATA REPORT

DOCKET NO. 50 - 277  
 DATE JUNE 5, 2000  
 COMPLETED BY PECO ENERGY COMPANY  
 C. M. SHAW  
 PLANT ENGINEERING  
 ENGINEERING DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4996

## OPERATING STATUS

1. UNIT NAME: \_\_\_\_\_ PEACH BOTTOM UNIT 2  
 2. REPORTING PERIOD: \_\_\_\_\_ MAY, 2000  
 3. DESIGN ELECTRICAL RATING (NET MWE): \_\_\_\_\_ 1119  
 4. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): \_\_\_\_\_ 1159  
 5. MAXIMUM DEPENDABLE CAPACITY (NET MWE): \_\_\_\_\_ 1093

	THIS MONTH	YR-TO-DATE	CUMULATIVE
6. NUMBER OF HOURS REACTOR WAS CRITICAL	708.8	3,611.8	159,842.9
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	677.0	3,580.0	155,577.9
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	691,766	3,849,101	151,003,682

# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277  
DATE JUNE 5, 2000

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	91.0 %	98.2 %	68.5 %
12. UNIT AVAILABILITY FACTOR	91.0 %	98.2 %	68.5 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	85.1 %	96.6 %	62.5 %
14. UNIT CAPACITY FACTOR (USING DER NET)	83.1 %	94.3 %	61.4 %
15. UNIT FORCED OUTAGE RATE	14.1 %	3.0 %	10.5 %
16. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): (717) 456-3412			
17. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	(717) 456-3412		
18. 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	

# UNIT SHUTDOWNS

DOCKET NO. 50 - 277  
 UNIT NAME PEACH BOTTOM UNIT 2  
 DATE JUNE 5, 2000  
 COMPLETED BY PECO ENERGY COMPANY  
 C. M. SHAW  
 PLANT ENGINEERING  
 ENGINEERING DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-4996

REPORT MONTH    MAY, 2000

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
1	000519	S	35.3	B	1	REACTOR POWER WAS REDUCED TO 0% DUE TO LEAKING TUBES IN THE 2B FEEDWATER HEATER. TUBES WERE PLUGGED IN THE HEATER.
			<hr style="width: 50%; margin: 0 auto;"/> TOTAL HOURS                      35.3			

(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)

# OPERATING DATA REPORT

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 TELEPHONE (717) 456-4996

## OPERATING STATUS

1. UNIT NAME: \_\_\_\_\_ PEACH BOTTOM UNIT 3  
 2. REPORTING PERIOD: \_\_\_\_\_ MAY, 2000  
 3. DESIGN ELECTRICAL RATING (NET MWE): \_\_\_\_\_ 1119  
 4. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): \_\_\_\_\_ 1159  
 5. MAXIMUM DEPENDABLE CAPACITY (NET MWE): \_\_\_\_\_ 1093

	THIS MONTH	YR-TO-DATE	CUMULATIVE
6. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	3,647.0	158,112.7
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	744.0	3,647.0	154,263.5
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	775,282	4,005,738	148,393,096

## OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278  
DATE JUNE 5, 2000

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	100.0 %	100.0 %	69.2 %
12. UNIT AVAILABILITY FACTOR	100.0 %	100.0 %	69.2 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	95.3 %	100.5 %	63.4 %
14. UNIT CAPACITY FACTOR (USING DER NET)	93.1 %	98.2 %	61.7 %
15. UNIT FORCED OUTAGE RATE	4.5 %	.9 %	9.3 %
16. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): (717) 456-3412			
17. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:		(717) 456-3412	
18. 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

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REPORT MONTH    MAY, 2000

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
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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)