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Peach Bottom Atomic Power Station  
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Nuclear

June 3, 2003

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 April 2003 forwarded pursuant to Technical Specification 5.6.4 under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,



Garey L. Stathes  
Director, Site Engineering  
Peach Bottom Atomic Power Station

GLS/PRR/CSL:cmg

*PRR* CSL

Enclosures

cc:

H. J. Miller, Administrator, Region I, USNRC  
A.C. McMurray, USNRC, Senior Resident Inspector, PBAPS

ccn 03-14051

IE24

Peach Bottom Atomic Power Station  
Unit 2  
May 1 through May 31, 2003

Narrative Summary of Operating Experiences

Unit 2 began the month of May at 80% power.

At approx. 2300 on April 30<sup>th</sup>, Unit 2 began a series of load drops for the purpose of power suppression testing. At 0023 on May 1<sup>st</sup>, Unit 2 was at 77% power, and by 0140, it was at 63% power. At 0520, power suppression testing commenced. At 1300 on May 3<sup>rd</sup>, fuel bundle 30-23 was identified as the source of the fuel leak.

Slightly after 1300 on May 3<sup>rd</sup>, Unit 2 reduced power from approximately 60% to 30% to facilitate repairs to the Caldon LEFM system, and to complete condenser waterbox cleaning. At 0031 on May 4<sup>th</sup>, the Caldon repair was completed. At 0045 on May 4<sup>th</sup>, condenser waterbox cleaning was complete. By 0300 on May 4<sup>th</sup>, the Unit was at 44% power. At 1324 on May 4<sup>th</sup>, it had reached 56% power, and by 1204 on May 5<sup>th</sup>, it had reached approximately 70% power. Power ascension was slower than normal due to limitations imposed by the failed fuel operating procedures.

By 1200 on May 6<sup>th</sup>, Unit 2 had returned to approximately 85% power. At 1505 on May 6<sup>th</sup>, power was briefly reduced from 85% to 80%, due to oscillations in the #3 main turbine control valve.

At 0015 on May 7<sup>th</sup>, Unit 2 commenced a rod pattern adjustment, during which troubleshooting was conducted on the #3 control valve. At 0419, with the rod pattern adjustment completed, power ascension resumed. By 0622 on May 8<sup>th</sup>, Unit 2 was at 71% power. At 1558, the oscillations in the #3 control valve reappeared, and power was reduced to 65%. Repairs were completed on the #3 control valve at 1452 on May 9<sup>th</sup>, and power ascension resumed. The Unit reached 100% power by 2100 on May 11<sup>th</sup>.

At 1100 on May 12<sup>th</sup>, a load drop to set the final rod pattern adjustment was started, and the Unit reduced power to 55% power by 1330. When the rod pattern adjustment was completed, the Unit once again resumed power ascension. The Unit reached 100% power by 1420 on May 14<sup>th</sup>.

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

Peach Bottom Atomic Power Station  
Unit 3  
May 1 through May 31, 2003

Narrative Summary of Operating Experiences

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

At 2300 on May 16<sup>th</sup>, Unit 3 reduced power to 52%, for condenser waterbox cleaning and maintenance work on the reactor feedpump turbines. By 0841, on May 17<sup>th</sup>, the work was complete, and power ascension had begun. The Unit returned to 100% power by 0216 on May 18<sup>th</sup>.

At 0124 on May 19<sup>th</sup>, a follow-up rod pattern adjustment was begun, and the Unit reduced power to 85%. Following completion of the rod pattern adjustment, the Unit returned to 100% power by 0537 on May 19<sup>th</sup>.

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 15 is scheduled for September 22, 2004.

3. Scheduled date for restart following refueling:

Restart following refueling forecast for October 7, 2004.

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

Yes

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

- a. Potential Cycle 16 Safety Limit MCPR Change.

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

Nothing to report for this period.

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:

Nothing to report this period.

**UNIT 2 REFUELING INFORMATION (Continued)**

7. The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool and (c) dry storage.

- (a) Core - 764 Fuel Assemblies
- (b) Fuel Pool - 2908 Fuel Assemblies, 58 Fuel Rods
- (c) Interim Spent Fuel Storage Installation - 680 fuel assemblies

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:

Based on projected dry cask storage schedules and reload batch sizes, a full core discharge will remain available throughout plant life.

**UNIT 3 REFUELING INFORMATION**

1. Name of facility:  
  
Peach Bottom Unit 3
2. Scheduled date for next refueling shutdown:  
  
Reload 14 is scheduled for September 21, 2003.
3. Scheduled date for restart following refueling  
  
Restart following refueling forecast for October 9, 2003.
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?  
a.) Potential Cycle 15 Safety Limit MCPR Change.
5. Scheduled date(s) for submitting proposed licensing action and supporting information.  
  
a.) Submittal anticipated June 2003.
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 3R14 reload will consist of approximately 288 GE-14 bundles. This will be the second reload of GE-14 fuel.
7. The number of fuel assemblies (a) in the core, (b) in the spent fuel storage pool and (c) dry storage.  
(a) Core - 764 Fuel Assemblies  
(b) Fuel Pool - 2725 Fuel Assemblies, 6 Fuel Rods  
(c) Interim Spent Fuel Storage Installation - 612 fuel assemblies
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:

Based on projected dry cask storage schedules and reload batch sizes, a full core discharge will remain available throughout plant life.

## OPERATING DATA REPORT

DOCKET NO. 50 - 277  
DATE JUNE 3, 2003  
COMPLETED BY EXELON  
C. S. LEWIS  
PLANT ENGINEERING  
ENGINEERING DIVISION  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-3245

### OPERATING STATUS

1. UNIT NAME: \_\_\_\_\_ PEACH BOTTOM UNIT 2  
2. REPORTING PERIOD: \_\_\_\_\_ MAY, 2003  
3. DESIGN ELECTRICAL RATING (NET MWE): \_\_\_\_\_ 1143  
4. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): \_\_\_\_\_ 1182  
5. MAXIMUM DEPENDABLE CAPACITY (NET MWE): \_\_\_\_\_ 1116

	THIS MONTH	YR-TO-DATE	CUMULATIVE
6. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	3,594.8	184,860.3
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	744.0	3,583.0	180,462.9
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	726,862	3,908,989	177,794,755

# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277

DATE JUNE 3, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	100.0 %	98.9 %	71.2 %
12. UNIT AVAILABILITY FACTOR	100.0 %	98.9 %	71.2 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	87.5 %	96.7 %	65.1 %
14. UNIT CAPACITY FACTOR (USING DER NET)	85.5 %	94.4 %	64.0 %
15. UNIT FORCED OUTAGE RATE	.0 %	1.1 %	9.5 %
16. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): (717) 456-4248			
17. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: (717) 456-4248			
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 3, 2003  
 COMPLETED BY EXELON  
 C. S. LEWIS  
 PLANT ENGINEERING  
 ENGINEERING DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-3245

REPORT MONTH MAY, 2003

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)

## OPERATING DATA REPORT

DOCKET NO. 50 - 278  
DATE JUNE 3, 2003  
COMPLETED BY EXELON  
C. S. LEWIS  
PLANT ENGINEERING  
ENGINEERING DIVISION  
PEACH BOTTOM ATOMIC POWER STATION  
TELEPHONE (717) 456-3245

### OPERATING STATUS

1. UNIT NAME: \_\_\_\_\_ PEACH BOTTOM UNIT 3  
2. REPORTING PERIOD: \_\_\_\_\_ MAY, 2003  
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	3,623.0	183,762.5
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	744.0	3,623.0	179,856.8
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	821,289	4,039,327	176,155,292

# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE JUNE 3, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	100.0 %	100.0 %	72.1 %
12. UNIT AVAILABILITY FACTOR	100.0 %	100.0 %	72.1 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	101.0 %	102.0 %	66.9 %
14. UNIT CAPACITY FACTOR (USING DER NET)	98.6 %	99.6 %	65.1 %
15. UNIT FORCED OUTAGE RATE	.0 %	.0 %	8.2 %
16. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): (717) 456-4248			
17. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: (717) 456-4248			
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

DOCKET NO. 50 - 278  
 UNIT NAME PEACH BOTTOM UNIT 3  
 DATE JUNE 3, 2003  
 COMPLETED BY EXELON  
 C. S. LEWIS  
 PLANT ENGINEERING  
 ENGINEERING DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
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REPORT MONTH MAY, 2003

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)