

Exelon Nuclear  
Peach Bottom Atomic Power Station  
1848 Lay Road  
Delta, PA 17314-9032

Telephone 717.456.7014  
www.exeloncorp.com

August 4, 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 July 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 03-14068

IED4

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

Narrative Summary of Operating Experiences

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

At 2300 on July 19<sup>th</sup>, Unit 2 reduced power to 93% for planned turbine testing, and to swap lube oil coolers on the 2C reactor feedpump turbine. The Unit returned to 100% power by 0200 on July 20<sup>th</sup>.

At 1345 on July 22<sup>nd</sup>, Unit 2 automatically scrammed from 100% power, due to a generator lockout and resulting turbine trip. At 1358, a Group I isolation occurred due to rising steam tunnel temperatures. During the ensuing forced outage, both the scram and the Group I isolation were investigated. The cause of the scram has been identified to be foreign material in the ISO phase bus duct, which caused intermittent generator grounds. Following corrective actions, the Unit reached critical operation at 0614 on July 25<sup>th</sup>, and was synchronized with the grid at 1016 on July 26<sup>th</sup>. Due to previously identified leaking fuel, the power ascension was limited to approximately 0.7% per hour. The Unit reduced power to 50% for a follow-up load drop to set the final rod pattern on July 30<sup>th</sup>. The Unit returned to 100% power by 2300 on July 31<sup>st</sup>.

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

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

Narrative Summary of Operating Experiences

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

At 2300 on July 5<sup>th</sup>, Unit 3 reduced power to 72%, for a planned rod pattern adjustment. The Unit returned to 100% power by 0643 on July 6<sup>th</sup>.

Unit 3 ended the month of July 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.) Submitted in 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 284 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 - 2657 Fuel Assemblies, 6 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.

**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 AUGUST 5, 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: JULY, 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	679.5	4,994.3	186,259.8
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	651.5	4,954.5	181,834.4
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	695,816	5,424,964	179,310,730



# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277  
DATE AUGUST 5, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	87.6 %	97.4 %	71.3 %
12. UNIT AVAILABILITY FACTOR	87.6 %	97.4 %	71.3 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	83.8 %	95.6 %	65.3 %
14. UNIT CAPACITY FACTOR (USING DER NET)	81.8 %	93.3 %	64.1 %
15. UNIT FORCED OUTAGE RATE	12.4 %	2.6 %	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 AUGUST 5, 2003  
 COMPLETED BY EXELON  
 C. S. LEWIS  
 PLANT ENGINEERING  
 ENGINEERING DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-3245

REPORT MONTH JULY, 2003

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
2	030722	F	92.5	A	3	REACTOR POWER WAS REDUCED TO 0% DUE TO FOREIGN MATERIAL IN ISOPHASE BUS DUCTS CAUSED INTERMITTENT GENERATOR GROUNDS, TRIPPING UNIT. (SYSTEM 50D GENERATOR ISOPHASE BUS COOLING)
TOTAL HOURS			92.5			

(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 AUGUST 5, 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: \_\_\_\_\_ JULY, 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	5,087.0	185,228.5
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	744.0	5,087.0	181,320.8
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	814,841	5,654,863	177,770,829

# OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE AUGUST 5, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	100.0 %	100.0 %	72.3 %
12. UNIT AVAILABILITY FACTOR	100.0 %	100.0 %	72.3 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	100.2 %	101.7 %	67.1 %
14. UNIT CAPACITY FACTOR (USING DER NET)	97.9 %	99.3 %	65.3 %
15. UNIT FORCED OUTAGE RATE	.0 %	.0 %	8.1 %
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 AUGUST 5, 2003  
 COMPLETED BY EXELON  
 C. S. LEWIS  
 PLANT ENGINEERING  
 ENGINEERING DIVISION  
 PEACH BOTTOM ATOMIC POWER STATION  
 TELEPHONE (717) 456-3245

REPORT MONTH JULY, 2003

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

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)