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

Telephone 717.456.7014
www.exeloncorp.com

Exelon Nuclear

November 5, 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 October 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
C. Smith, USNRC, Senior Resident Inspector, PBAPS

ccn 03-14090

JE24

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

Narrative Summary of Operating Experiences

Unit 2 began the month of October at 98.6% power (3458 MWth), with the Caldon LEFM feedwater flow measurement system out of service.

At 1530 on October 1st, Unit 2 increased power to 3496 MWth, following analysis and resolution of the problems with the Caldon LEFM feedwater flow measurement system. This power level (3496 MWth) will now be the maximum allowable for the Unit until repairs are made to the Caldon system in the 2R15 refueling outage next fall.

At 2300 on October 3rd, Unit 2 reduced power to 59% for a planned rod pattern adjustment. The Unit returned to maximum allowable CTP (3496 MWth) by 0100 on October 5th.

At 2310 on October 25th, Unit 2 reduced power to 93% for planned testing of the turbine stop valves and intermediate valves. The Unit returned to maximum allowable CTP (3496 MWth) by 0200 on October 26th.

At 1748 on October 28th, Unit 2 reduced power to 3458 MWth (approximately 98.6%) due to the failure of a feedwater temperature sensor. With the temperature sensor out of service, the Unit was restricted to 3458 MWth. Following replacement of the failed sensor, the Unit returned to 3496 MWth by 0700 on October 30th.

Unit 2 ended the month of October at its new maximum allowable Core Thermal Power level of 3496 MWth (from this point forward referred to as 100% CTP).

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

Narrative Summary of Operating Experiences

Unit 3 began the month of October at 0% power, in mode 5, in the 3R14 refueling outage.

At 0635 on October 11th, Unit 3 was declared critical. At 0400 on October 13th, the Unit was synchronized with the grid. During the ascension to full power coming out of the refueling outage, the 3A recirc pump came in with a high seal cavity temperature alarm, and the Unit reduced power to 60% for investigation. Following successful investigation and testing, the Unit reached 100% allowable CTP (3458 MWth) by 0700 on October 17th.

At 0700 on October 17th, Unit 3 reduced power to 76%, as part of the planned work to implement the Appendix "K" uprate from 3458 MWth to 3514 MWth. By 2300 on October 18th, the Unit had reached its new maximum allowable CTP of 3514 MWth, which will be referred to as 100% CTP from this point forward.

Unit 3 ended the month of October at its new 100% power level of 3514 MWth.

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 15 is scheduled for September 20, 2005.

3. Scheduled date for restart following refueling

   Restart following refueling forecast for October 9, 2005.

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 16 Safety Limit MCPR Change.

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

   Nothing to report 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.

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 – 2941 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 NOVEMBER 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: OCTOBER; 2003
3. DESIGN ELECTRICAL RATING (NET MWE): 1138
4. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1182
5. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1112

	THIS MONTH	YR-TO-DATE	CUMULATIVE
6. NUMBER OF HOURS REACTOR WAS CRITICAL	745.0	7,036.9	188,302.3
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	745.0	6,967.2	183,847.0
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	845,620	7,647,243	181,533,008

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277

DATE NOVEMBER 5, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	100.0 %	95.5 %	71.5 %
12. UNIT AVAILABILITY FACTOR	100.0 %	95.5 %	71.5 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	102.1 %	94.3 %	65.6 %
14. UNIT CAPACITY FACTOR (USING DER NET)	99.7 %	92.1 %	64.4 %
15. UNIT FORCED OUTAGE RATE	.0 %	4.5 %	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 NOVEMBER 5, 2003
COMPLETED BY EXELON
C. S. LEWIS
PLANT ENGINEERING
ENGINEERING DIVISION
PEACH BOTTOM ATOMIC POWER STATION
TELEPHONE (717) 456-3245

REPORT MONTH OCTOBER, 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)

OPERATING DATA REPORT

DOCKET NO. 50 - 278
DATE NOVEMBER 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: OCTOBER, 2003
3. DESIGN ELECTRICAL RATING (NET MWE): 1138
4. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1182
5. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1112

	THIS MONTH	YR-TO-DATE	CUMULATIVE
6. NUMBER OF HOURS REACTOR WAS CRITICAL	498.4	6,667.0	186,806.5
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	457.3	6,625.9	182,859.6
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	474,648	7,257,331	179,373,296

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE NOVEMBER 5, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	61.4 %	90.8 %	72.3 %
12. UNIT AVAILABILITY FACTOR	61.4 %	90.8 %	72.3 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	57.3 %	89.5 %	66.6 %
14. UNIT CAPACITY FACTOR (USING DER NET)	56.0 %	87.4 %	64.9 %
15. UNIT FORCED OUTAGE RATE	.0 %	5.5 %	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 NOVEMBER 5, 2003
COMPLETED BY EXELON
C. S. LEWIS
PLANT ENGINEERING
ENGINEERING DIVISION
PEACH BOTTOM ATOMIC POWER STATION
TELEPHONE (717) 456-3245

REPORT MONTH OCTOBER, 2003

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
R14	031001	S	287.7	C	3	REACTOR POWER WAS REDUCED TO 0% DUE TO LOSS OF OFFSITE POWER ON 9/15/03, AND 3R14 BEGAN EARLY AND RETURNED TO FULL POWER ON 10/17/03.
	TOTAL HOURS		287.7			

(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)