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October 2, 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 August 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 03-14079

IE24

Peach Bottom Atomic Power Station
Unit 2
September 1 through September 30, 2003

Narrative Summary of Operating Experiences

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

At 2300 on September 3rd, Unit 2 reduced power to 97.3% for planned on-line HCU maintenance. The Unit returned to 100% power by 0105 on September 4th.

At 2320 on September 5th, Unit 2 reduced power to 50% for a planned rod sequence exchange. The Unit returned to 100% power by 1200 on September 7th.

At 2226 on September 8th, Unit 2 reduced power to 93.2% for a planned follow-up rod pattern adjustment. The Unit returned to 100% power by 0129 on September 9th.

At 0133 on September 15th, Unit 2 automatically scrammed due to off-site electrical disturbances in the power grid. These disturbances resulted in a loss of the start-up sources and subsequent loss of power to the RPS system, which in turn caused the Unit to trip. Following investigations into the electrical disturbances and some equipment troubleshooting and repairs, at 2047 on September 21st, the reactor was declared critical, however, reactor pressure had to be lowered in order open the main steam isolation valves. The reactor was declared subcritical at 0005 on September 22nd, and following the opening of the MSIV's, the Unit was declared critical at 0317 on September 22nd, and was synchronized with the grid at 0553 on September 23rd. The Unit returned to 98.6% power (3458 MWth) by 2056 on September 25th. This is the maximum power level at which the Unit may operate with the Caldon LEFM feedwater flow measurement system out of service.

At 2100 on September 26th, Unit 2 reduced power to 28% for a planned follow-up rod pattern adjustment and Caldon LEFM and 2C RFPT linkage repairs. The Unit returned to 98.6% power (3458 MWth) by 0400 on September 29th. This is the maximum power level at which the Unit may operate with the Caldon LEFM feedwater flow measurement system out of service.

Unit 2 ended the month of September at 98.6% power (3458 MWth). This is the maximum power level at which the Unit may operate with the Caldon LEFM feedwater flow measurement system out of service.

Peach Bottom Atomic Power Station
Unit 3
September 1 through September 30, 2003

Narrative Summary of Operating Experiences

Unit 3 began the month of September at 97% power, in coastdown to the 3R14 refueling outage.

At 2217 on September 12th, Unit 3 reduced power from 91.5% to 76.7%, to remove the 3A reactor feed pump and feed pump turbine from service for planned maintenance, in preparation for the 3R14 refueling outage. The Unit returned to 91.5% power, which was the starting point for the load reduction, by 0500 on September 13th.

At 0133 on September 15th, Unit 3 automatically scrammed due to off-site electrical disturbances in the power grid. These disturbances resulted in a loss of the start-up sources and subsequent loss of power to the RPS system, which in turn caused the Unit to trip. Station Management made the decision to proceed with the 3R14 refueling outage earlier than planned. The original starting date for the outage was September 21st.

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

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 – 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 OCTOBER 7, 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: SEPTEMBER, 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	553.6	6,291.9	187,557.3
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	523.7	6,222.2	183,102.0
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	534,353	6,801,622	180,687,388

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 277

DATE OCTOBER 7, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	72.7 %	95.0 %	71.4 %
12. UNIT AVAILABILITY FACTOR	72.7 %	95.0 %	71.4 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	66.5 %	93.0 %	65.4 %
14. UNIT CAPACITY FACTOR (USING DER NET)	64.9 %	90.8 %	64.2 %
15. UNIT FORCED OUTAGE RATE	27.3 %	5.0 %	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 OCTOBER 7, 2003
COMPLETED BY EXELON
C. S. LEWIS
PLANT ENGINEERING
ENGINEERING DIVISION
PEACH BOTTOM ATOMIC POWER STATION
TELEPHONE (717) 456-3245

REPORT MONTH SEPTEMBER, 2003

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3	030915	F	196.3	H	3	REACTOR POWER WAS REDUCED TO 0% DUE TO OFFSITE DISTURBANCES IN THE ELECTRICAL GRID.
	TOTAL HOURS		196.3			

(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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DATE OCTOBER 7, 2003
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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: SEPTEMBER, 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	337.5	6,168.5	186,308.1
7. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
8. HOURS GENERATOR ON-LINE	337.5	6,168.5	182,402.3
9. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
10. NET ELECTRICAL ENERGY GENERATED (MWH)	331,064	6,782,682	178,898,648

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 278

DATE OCTOBER 7, 2003

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. UNIT SERVICE FACTOR	46.9 %	94.2 %	72.3 %
12. UNIT AVAILABILITY FACTOR	46.9 %	94.2 %	72.3 %
13. UNIT CAPACITY FACTOR (USING MDC NET)	42.1 %	94.7 %	67.1 %
14. UNIT CAPACITY FACTOR (USING DER NET)	41.1 %	92.5 %	65.3 %
15. UNIT FORCED OUTAGE RATE	53.1 %	5.8 %	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 OCTOBER 7, 2003
COMPLETED BY EXELON
C. S. LEWIS
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TELEPHONE (717) 456-3245

REPORT MONTH SEPTEMBER, 2003

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
1	030915	F	382.5	H	3	REACTOR POWER WAS REDUCED TO 0% DUE TO OFFSITE DISTURBANCES IN THE ELECTRICAL GRID. 3R14 REFUELING OUTAGE WAS STARTED EARLIER THAN EXPECTED.
	TOTAL HOURS		382.5			

(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)