



PECO ENERGY

Gerald R. Rainey
Vice President
Peach Bottom Atomic Power Station

PECO Energy Company
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January 12, 1994

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Docket Nos. 50-277 and 50-278

Gentlemen:

Enclosed are twelve copies of the monthly operating report for Peach Bottom Units 2 and 3 for the month of December 1993 forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Sincerely,

Gerald R. Rainey
Vice President


GRR/AJW/GHG/TJN/MSH:wjj

enclosures

cc: R.A. Burricelli, Public Service Electric & Gas
W.P. Dornsife, Commonwealth of Pennsylvania
R.I. McLean, State of Maryland
T.T. Martin, Administrator, Region I, USNRC
W.L. Schmidt, USNRC, Senior Resident Inspector
H.C. Schwemm, Atlantic Electric
C.D. Schaefer, Delmarva Power
INPO Records Center

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PEACH BOTTOM ATOMIC POWER STATION
NRC MONTHLY OPERATIONS SUMMARY
DECEMBER 1993

OVERVIEW OF ACTIVITIES

COMMON PLANT

The following plant maintenance outages occurred during the month of December.

- * Diesel Driven Fire Pump

UNIT 2

Unit 2 began the month of December at a nominal 100% power.

On December 10, 1993 at 04:00 hours power was reduced to perform control rod stroking. The unit was returned to 100% power at 0600 hours.

On December 18, 1993 at 01:00 hours power was reduced to 60% to perform maintenance on the "2B" reactor feed pump and perform rod pattern adjustments.

On December 19, 1993 at 18:00 hours the unit was returned to 100% nominal power.

On December 31, 1993 at 01:00 hours power was reduced to perform Turbine Stop Valve testing. The unit was returned to 100% nominal power at 04:00 hours.

The following maintenance outages occurred on Unit 2:

- * "B" Loop RHR
- * E3 Diesel
- * Turbine Building Ventilation Heating Coils

UNIT 3

Unit 3 began the month of December at a nominal 100% power.

On December 1, 1993 at 22:00 hours the unit was shutdown. This was due to RHR MO-2-10-25A being inoperable.

On December 15, 1993 at 21:00 hours the Unit 3 outage ended when the main generator was synchronized to the grid.

On December 17, 1993 at 21:00 hours Unit 3 reached 100% power.

On December 29, 1993 at 21:00 hours power was reduced due to a recirc pump runback on "A" pump. The unit was returned to 100% nominal power at 00:00 hours on December 30, 1993.

Unit 3 ended the month at 100% nominal power.

The following maintenance outages occurred on Unit 3:

- * Turbine Building Ventilation Heating Coils
- * Reactor Building Closed Cooling Water

UNIT 2 REFUELING INFORMATION

1. Name of facility:
Peach Bottom Unit 2
2. Scheduled date for next refueling shutdown:
Reload 10 scheduled for September 10, 1994.
3. Scheduled date for restart following refueling:
Restart following refueling forecast for December 8, 1994.
4. Will refueling or resumption of operation therefore require a technical specification change or other license amendment?
No.
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:
N/A
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 - 2164 Fuel Assemblies, 58 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 2 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 1997 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 10 scheduled for September 11, 1995
3. Scheduled date for restart following refueling
Restart following refueling scheduled for November 13, 1995
4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
No
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:
N/A
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 - 2201 Fuel Assemblies, 6 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 2004 without full core offload capability.

September 1998 with full core offload capability.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE JANUARY 11, 1994

COMPANY PECO ENERGY COMPANY

W. J. JEFFREY
PERFORMANCE & RELIABILITY
SITE ENGINEERING
PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-7014 EXT. 4027

MONTH DECEMBER 1993

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1 | 1060 | 17 | 1068 |
| 2 | 1064 | 18 | 749 |
| 3 | 1064 | 19 | 991 |
| 4 | 1060 | 20 | 1066 |
| 5 | 1060 | 21 | 1070 |
| 6 | 1061 | 22 | 1070 |
| 7 | 1061 | 23 | 1053 |
| 8 | 1061 | 24 | 1069 |
| 9 | 1066 | 25 | 1069 |
| 10 | 1061 | 26 | 1065 |
| 11 | 1065 | 27 | 1069 |
| 12 | 1065 | 28 | 1065 |
| 13 | 1064 | 29 | 1065 |
| 14 | 1065 | 30 | 1056 |
| 15 | 1063 | 31 | 1044 |
| 16 | 1071 | | |

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE JANUARY 11, 1994

COMPANY PECO ENERGY COMPANY

W. J. JEFFREY
PERFORMANCE & RELIABILITY
SITE ENGINEERING
PEACH BOTTOM ATOMIC POWER STATION

TELEPHONE (717) 456-7014 EXT. 4027

MONTH DECEMBER 1993

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|----------------------------------------|-----|----------------------------------------|
| 1 | 1036 | 17 | 811 |
| 2 | 80 | 18 | 1041 |
| 3 | 0 | 19 | 1058 |
| 4 | 0 | 20 | 1070 |
| 5 | 0 | 21 | 1074 |
| 6 | 0 | 22 | 1066 |
| 7 | 0 | 23 | 1057 |
| 8 | 0 | 24 | 1066 |
| 9 | 0 | 25 | 1070 |
| 10 | 0 | 26 | 1061 |
| 11 | 7 | 27 | 1069 |
| 12 | 0 | 28 | 1065 |
| 13 | 0 | 29 | 1057 |
| 14 | 0 | 30 | 1065 |
| 15 | 6 | 31 | 1061 |
| 16 | 287 | | |

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE JANUARY 11, 1994

COMPLETED BY PECO ENERGY COMPANY

W. J. JEFFREY
 PERFORMANCE & RELIABILITY
 SITE ENGINEERING
 PEACH BOTTOM ATOMIC POWER STATION
 TELEPHONE (717) 456-7014 EXT. 4027

OPERATING STATUS

- 1. UNIT NAME: PEACH BOTTOM UNIT 2
- 2. REPORTING PERIOD: DECEMBER, 1993
- 3. LICENSED THERMAL POWER(MWT): 3293
- 4. NAMEPLATE RATING (GROSS MWE): 1152
- 5. DESIGN ELECTRICAL RATING (NET MWE): 1065
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1098
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES:

- 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:
- 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):
- 10. REASONS FOR RESTRICTIONS, IF ANY:

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---------------------------------------------|------------|------------|-------------|
| 11. HOURS IN REPORTING PERIOD | 744 | 8,760 | 170,880 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 744.0 | 7,728.0 | 106,112.1 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 744.0 | 7,571.0 | 102,220.2 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,418,406 | 24,119,749 | 304,489,493 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 806,200 | 7,979,100 | 100,151,490 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 781,883 | 7,704,083 | 95,990,802 |

DATE JANUARY 11, 1994

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|------------------------------------------|------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 100.0 | 86.4 | 59.8 |
| 20. UNIT AVAILABILITY FACTOR | 100.0 | 86.4 | 59.8 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 99.6 | 83.4 | 53.2 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 98.7 | 82.6 | 52.7 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 5.3 | 13.9 |

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: N/A

| 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): | FORECAST | ACHIEVED |
|-----------------------------------------------------------|----------|----------|
| INITIAL CRITICALITY | | 09/16/73 |
| INITIAL ELECTRICITY | | 02/18/74 |
| COMMERCIAL OPERATION | | 07/05/74 |

OPERATING DATA REPORT

DOCKET NO. 50 - 278

DATE JANUARY 11, 1994

COMPLETED BY PECO ENERGY COMPANY

W. J. JEFFREY
 PERFORMANCE & RELIABILITY
 SITE ENGINEERING
 PEACH BOTTOM ATOMIC POWER STATION
 TELEPHONE (717) 456-7014 EXT. 4027

OPERATING STATUS

- 1. UNIT NAME: PEACH BOTTOM UNIT 3
- 2. REPORTING PERIOD: DECEMBER, 1993
- 3. LICENSED THERMAL POWER (MWT): 3293
- 4. NAMEPLATE RATING (GROSS MWE): 1152
- 5. DESIGN ELECTRICAL RATING (NET MWE): 1065
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1098
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1035

NOTES:

- 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 3 THROUGH 7) SINCE LAST REPORT, GIVE REASONS:
- 9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):
- 10. REASONS FOR RESTRICTIONS, IF ANY:

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---------------------------------------------|------------|------------|-------------|
| 11. HOURS IN REPORTING PERIOD | 744 | 8,760 | 166,776 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 417.0 | 6,613.0 | 104,671.4 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 417.0 | 6,594.0 | 101,291.2 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 1,303,896 | 20,192,267 | 298,773,477 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 423,000 | 6,550,000 | 97,990,132 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 408,740 | 6,310,370 | 93,974,336 |

DATE JANUARY 11, 1994

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|------------------------------------------|------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 56.0 | 75.3 | 60.7 |
| 20. UNIT AVAILABILITY FACTOR | 56.0 | 75.3 | 60.7 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 53.1 | 69.6 | 54.4 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 51.6 | 67.6 | 52.9 |
| 23. UNIT FORCED OUTAGE RATE | 44.0 | 6.8 | 12.3 |

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 11/14/95

| 26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION): | FORECAST | ACHIEVED |
|-----------------------------------------------------------|----------|----------|
| INITIAL CRITICALITY | | 08/07/74 |
| INITIAL ELECTRICITY | | 09/01/74 |
| COMMERCIAL OPERATION | | 12/23/74 |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE JANUARY 11, 1994

REPORT MONTH DECEMBER, 1993

COMPLETED BY PECO ENERGY COMPANY

W. J. JEFFREY
 PERFORMANCE & RELIABILITY
 SITE ENGINEERING
 PEACH BOTTOM ATOMIC POWER STATION
 TELEPHONE (717) 456-7014 EXT. 4027

| NO. | DATE | TYPE (1) | DURATION (HOURS) | REASON (2) | METHOD OF SHUTTING DOWN REACTOR (3) | LICENSEE EVENT REPORT # | SYSTEM CODE (4) | COMPONENT CODE (5) | CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE |
|-----|--------|-------------|---------------------|---------------|-------------------------------------------|-------------------------------|-----------------------|--------------------------|-----------------------------------------------------------------------------------|
| 26 | 931210 | S | 2.0 | B | 4 | N/A | RC | CONROD | CONTROL ROD STROKING. REACTOR NOT SHUTDOWN |
| 27 | 931219 | F | 41.0 | B | 4 | N/A | RC | CONROD | ROD PATTERN ADJUSTMENT AND REACTOR FEED PUMP MAINTENANCE. REACTOR NOT SHUTDOWN |
| 28 | 931231 | S | 3.0 | B | 4 | N/A | HE | VALVEX | TURBINE STOP VALVE TESTING. REACTOR NOT SHUTDOWN |
| | | | 46.0 | | | | | | |

(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)

(4)

EXHIBIT G - INSTRUCTIONS
 FOR PREPARATION OF DATA
 ENTRY SHEETS FOR LICENSEE
 EVENT REPORT (LER)
 FILE (NUREG-0161)

(5)

EXHIBIT I - SAME SOURCE

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE JANUARY 11, 1994

REPORT MONTH DECEMBER, 1993

COMPLETED BY PECO ENERGY COMPANY

W. J. JEFFREY
 PERFORMANCE & RELIABILITY
 SITE ENGINEERING
 PEACH BOTTOM ATOMIC POWER STATION
 TELEPHONE (717) 456-7014 EXT. 4027

| NO. | DATE | TYPE (1) | DURATION (HOURS) (1) | REASON (2) | METHOD OF SHUTTING DOWN REACTOR (3) | LICENSEE EVENT REPORT # | SYSTEM CODE (4) | COMPONENT CODE (5) | CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE |
|-----|--------|-------------|----------------------------|---------------|-------------------------------------------|-------------------------------|-----------------------|--------------------------|---------------------------------------------------------|
| 25 | 931201 | F | 335.0 | A | 1 | N/A | SF | VALVEX | LPCI MOTOR OPERATED VALVE MO-25A INOPERABLE |
| 26 | 931229 | F | 3.0 | A | 4 | N/A | CB | PUMPXX | "A" RECIRC PUMP RUNBACK. REACTOR NOT SHUTDOWN |
| | | | 338.0 | | | | | | |

(1)

(2)

(3)

(4)

F - FORCED
 S - SCHEDULED

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)

METHOD
 1 - MANUAL
 2 - MANUAL SCRAM.
 3 - AUTOMATIC SCRAM.
 4 - OTHER (EXPLAIN)

EXHIBIT G - INSTRUCTIONS
 FOR PREPARATION OF DATA
 ENTRY SHEETS FOR LICENSEE
 EVENT REPORT (LER)
 FILE (NUREG-0161)

(5)

EXHIBIT I - SAME SOURCE