AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE AUGUST 10, 1979

COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M.ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR

TELEPHONE (215) 841-5022

MONTH JULY 1979

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|---|---|---|---|
| 1 | 1063 | 17 | 1034 |
| 2 | 1063 | 18 | 1047 |
| 3 | 1056 | 19 | 1043 |
| 4 | 1065 | 20 | 1045 |
| 5 | 1064 | 21 | 1045 |
| 6 | 1027 | 22 | 1042 |
| 7 | 3 | 23 | 1041 |
| 8 | 0 | 24 | 1042 |
| 9 | 94 | 25 | 1048 |
| 10 | 700 | 26 | 1042 |
| 11 | 906 | 27 | 1041 |
| 12 | 1054 | 28 | 1036 |
| 13 | 1023 | 29 | 1043 |
| 14 | 769 | 30 | 1040 |
| 15 | 996 | 31 | 1040 |
| 16 | 1049 | | |

# OPERATING DATA REPORT

DOCKET NO. 50 - 277
DATE AUGUST 10, 1979
COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.M.ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR
TELEPHONE (215) 841-5022

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 2
2. REPORTING PERIOD: JULY, 1979
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. MAXIMUR DEPENDABLE CAPACITY (NET MWE): 1051

NOTES: THIS UNIT EXPERIENCED ONE MAJOR POWER REDUCTION AND ONE OUTAGE THIS MONTH

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:

7908100

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---|---|---|---|
| 11. HOURS IN REPORTING PERIOD | 744 | 5,087 | 44,471 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 693 | 4,694 | 34,114 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 683.6 | 4,661.4 | 33,347.7 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,157,866 | 14,914,097 | 95,135,054 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 713,420 | 4,991,990 | 31,157,920 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 685,127 | 4,820,864 | 29,862,219 |
| 19. UNIT SERVICE FACTOR | 91.9 | 91.6 | 75.0 |
| 20. UNIT AVAILABILITY FACTOR | 91.9 | 91.6 | 75.0 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 87.6 | 90.2 | 63.9 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 86.5 | 89.0 | 63.1 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 0.7 | 6.5 |

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: 5/17/80

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

| | FORECAST | ACHIEVED |
|---|---|---|
| INITIAL CRITICALITY | | |
| INITIAL ELECTRICITY | | |
| COMMERCIAL OPERATION | | |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277
UNIT NAME PEACH BOTTOM UNIT 2
DATE AUGUST 10, 1979
COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

REPORT MONTH JULY, 1979

W.M.ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR
TELEPHONE (215) 841-5022

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 790707 | S | 60.4 | A | 1 | 79-34/3L | SF | VALVEX | INTERIM REPAIRS TO RETURN CORE SPRAY 'A' LOOP TO SERVICE DUE TO INOPERABILITY OF FULL FLOW TEST (20A) VALVE. |
| 6 | 790714 | S | 0.0 | H | 4 | NONE | RB | ZZZZZZ | LOAD DROP DUE TO CONTROL ROD ADJUSTMENT |
| | | | 60.4 | | | | | | |

(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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE AUGUST 10, 1979

COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M.ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR

TELEPHONE (215) 841-5022

MONTH JULY 1979

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|---|---|---|---|
| 1 | 964 | 17 | 1008 |
| 2 | 1006 | 18 | 552 |
| 3 | 1041 | 19 | 446 |
| 4 | 1032 | 20 | 859 |
| 5 | 1035 | 21 | 978 |
| 6 | 1048 | 22 | 973 |
| 7 | 1036 | 23 | 998 |
| 8 | 1034 | 24 | 992 |
| 9 | 1036 | 25 | 991 |
| 10 | 1034 | 26 | 991 |
| 11 | 1035 | 27 | 986 |
| 12 | 1035 | 28 | 980 |
| 13 | 1028 | 29 | 978 |
| 14 | 1021 | 30 | 970 |
| 15 | 1013 | 31 | 970 |
| 16 | 975 | | |

OPERATING DATA REPORT

DOCKET NO. 50 - 278
DATE AUGUST 10, 1979
COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.M.ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR
TELEPHONE (215) 841-5022



OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3
2. REPORTING PERIOD: JULY, 1979
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: THIS UNIT EXPERIENCED ONE OUTAGE AND NO MAJOR POWER REDUCTION THIS MONTH

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 | 5,087 | 40,367 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 738 | 4,482 | 32,591 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 732.0 | 4,332.3 | 31,762.2 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,296,286 | 13,261,199 | 88,135,335 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 752,030 | 4,372,700 | 28,600,[illegible]10 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 721,153 | 4,213,187 | 27,456,330 |
| 19. UNIT SERVICE FACTOR | 98.4 | 85.2 | 78.7 |
| 20. UNIT AVAILABILITY FACTOR | 98.4 | 85.2 | 78.7 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 93.7 | 80.0 | 65.7 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 91.6 | 77.8 | 63.9 |
| 23. UNIT FORCED OUTAGE RATE | 1.6 | 3.1 | 7.0 |

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

9/15/79 TO 10/14/79 REFUELING OUTAGE



25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 10/14/79

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):

| | FORECAST | ACHIEVED |
|---|---|---|
| INITIAL CRITICALITY | | |
| INITIAL ELECTRICITY | | |
| COMMERCIAL OPERATION | | |

# UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278
UNIT NAME PEACH BOTTOM UNIT 3
DATE AUGUST 10, 1979
COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

REPORT MONTH JULY, 1979

W.M.ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR
TELEPHONE (215) 841-5022

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| 13 | 790718 | F | 12.0 | A | 3 | NA | EA | CKTBRK | CIRCUIT BREAKER PROTECTIVE RELAY AT 500KV DISTRIBUTION SYSTEM CAUSED LOSS OF LOAD. |
| | | | 12.0 | | | | | | |

(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

Docket No. 50-277

Attachment to
Monthly Operating Report
for July, 1979

REFUELING INFORMATION

1. Name of facility:
   Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

   March 1, 1980

3. Scheduled date for restart following refueling:

   May 17, 1980

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

   Yes.

   If answer is yes, what, in general, will these be?
   Technical specification changes to accomodate reload fuel. Modifications to reactor core operating limits are expected.

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

   February 8, 1980

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:
   Initial utilization of General Electric pre-pressurized Fuel Assemblies

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 - 618 Irradiated 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:
   Original installed capacity is 1110 fuel assemblies. An increase in capacity to 2816 fuel assemblies has been licensed, providing capacity for 1706 additional fuel assemblies. Plant modifications to be completed prior to next refueling.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:
   September, 1990.

Docket No. 50-277

Attachment to
Monthly Operating Report
for July, 1979

## REFUELING INFORMATION

1. Name of facility:

   Peach Bottom Unit 3

2. Scheduled date for next refueling shutdown:

   September 15, 1979

3. Scheduled date for restart following refueling:

   October 14, 1979

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

   Yes.

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

   Technical specification changes to accommodate reload fuel. Modifications to reactor core operating limits are expected.

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

   August 2, 1979

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:

   Initial utilization of General Electric pre-pressurized Fuel Assemblies

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 - 618 Irradiated 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 2816 fuel assemblies.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

   September, 1991

Docket No. 50-277

Attachment to
Monthly Operating Report
for July, 1979

REFUELING INFORMATION

1. Name of facility:
   Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

   March 1, 1980

3. Scheduled date for restart following refueling:

   May 17, 1980

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?
   Technical specification changes to accomodate reload fuel. Modifications to reactor core operating limits are expected.

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

   February 8, 1980

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:
   Initial utilization of General Electric pre-pressurized Fuel Assemblies

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 - 618 Irradiated 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:
   Original installed capacity is 1110 fuel assemblies. An increase in capacity to 2816 fuel assemblies has been licensed, providing capacity for 1706 additional fuel assemblies. Plant modifications to be completed prior to next refueling.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:
   September, 1990.

Docket No. 50-277

Attachment to
Monthly Operating Report
for July, 1979

REFUELING INFORMATION

1. Name of facility:

   Peach Bottom Unit 3

2. Scheduled date for next refueling shutdown:

   September 15, 1979

3. Scheduled date for restart following refueling:

   October 14, 1979

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

   Yes.

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

   Technical specification changes to accommodate reload fuel. Modifications to reactor core operating limits are expected.

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

   August 2, 1979

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:

   Initial utilization of General Electric pre-pressurized Fuel Assemblies

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 - 618 Irradiated 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 2816 fuel assemblies.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity:

   September, 1991

NARRATIVE SUMMARY OF OPERATING EXPERIENCES
PEACH BOTTOM UNITS 2 & 3
JULY 1979

UNIT 2

On July 3, one of the diesel generators was removed from service to changeout the governor. As a result of this, surveillance testing on various systems had to be completed. During the surveillance test, a valve on the 2A core spray system failed to close fully. With one diesel out of service, this required that Unit 2 be in cold shutdown within 24 hours, and a shutdown was initiated. At 5:10 pm, the diesel generator was declared operable, and the load on Unit 2 was recovered to rated condition. On July 6, a controlled shutdown was begun in order to make temporary repairs to return the 'A' core spray loop to service.

In addition to the core spray work, one of the main steam relief valves was replaced. Maintenance work was completed and checkoff lists begun on July 8. The Unit was returned to service on July 9 and reached rater power on July 12. A load reduction was taken on July 13 in order to adjust the control rod pattern. The unit preconditioned back to rated power by July 16.

UNIT 3

On July 1 and 2, a load reduction to 743 MWe was taken due to environmental regulations for river water temperatures. On July 10, end of cycle coastdown began. On July 16, another load reduction of 110 MWe was taken due to environmental regulations for river water temperatures. On July 18, the unit experienced a scram as a result of a loss of load due to a protective relay malfunction on the 500 KV system. The Unit was returned to service on July 19 and reached full capability on July 21. On July 29, the 3A feedwater heater string was removed from service due to feedwater heater internal leaks.