

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE OCTOBER 10, 1979

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (215) 841-5022

MONTH SEPTEMBER 1979

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|--|-----|--|
| 1 | 1049 | 17 | 1057 |
| 2 | 1052 | 18 | 1060 |
| 3 | 843 | 19 | 1061 |
| 4 | 49 | 20 | 1059 |
| 5 | 770 | 21 | 1058 |
| 6 | 1038 | 22 | 1063 |
| 7 | 1015 | 23 | 1060 |
| 8 | 796 | 24 | 1061 |
| 9 | 1030 | 25 | 1061 |
| 10 | 1058 | 26 | 1064 |
| 11 | 1062 | 27 | 1067 |
| 12 | 1061 | 28 | 1062 |
| 13 | 1064 | 29 | 1062 |
| 14 | 1062 | 30 | 1061 |
| 15 | 1054 | | |
| 16 | 1060 | | |

1165 337

7910180 396

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE OCTOBER 10, 1979

REPORT MONTH SEPTEMBER, 1979

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN
ENGINEER-IN-CHARGE
NUCLEAR SECTION
GENERATION DIVISION-NUCLEAR
TELEPHONE (215) 941-5022

1165 338

| NO. | DATE | TYPE (1) | DURATION (HOURS) (2) | REASON (3) | METHOD OF SHUTTING DOWN REACTOR (4) | LICENSEE EVENT REPORT # | SYSTEM CODE (5) | COMPONENT CODE (6) | CAUSE AND CORRECTIVE |
|-----|--------|-------------|----------------------------|---------------|--|-------------------------------|-----------------------|--------------------------|---|
| | | | | | | | | | ACTION TO PREVENT RECURRENCE |
| 8 | 790903 | F | 21.9 | A | 3 | NONE | HA | TURBIN | TESTING TURBINE LOW OIL PRESSURE TRIP WHEN LOCKOUT RELAY TRIPPED |
| 9 | 790909 | S | 0.0 | | 4 | NONE | RC | ZZZZZZ | LOAD DROP FOR RGE ADJUSTMENT |
| | | | 21.9 | | | | | | |

- | | | | |
|-----------------------------|--|--|---|
| (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 |

POOR ORIGINAL

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE OCTOBER 10, 1979

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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

POOR ORIGINAL

OPERATING STATUS

- 1. UNIT NAME: PEACH BOTTOM UNIT 2
- 2. REPORTING PERIOD: SEPTEMBER, 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): 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:

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---|------------|------------|------------|
| 11. HOURS IN REPORTING PERIOD | 720 | 6,551 | 45,435 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 704 | 6,143 | 35,562 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 698.1 | 6,103.5 | 34,789.8 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,238,319 | 19,552,824 | 99,773,781 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 748,230 | 6,539,410 | 32,705,340 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 717,987 | 6,305,653 | 31,347,008 |
| 19. UNIT SERVICE FACTOR | 97.0 | 93.2 | 75.7 |
| 20. UNIT AVAILABILITY FACTOR | 97.0 | 93.2 | 75.7 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 94.9 | 91.6 | 64.9 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 93.6 | 90.4 | 64.1 |
| 23. UNIT FORCED OUTAGE RATE | 3.0 | 0.9 | 6.7 |

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

1165 339

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

INITIAL CRITICALITY

INITIAL ELECTRICITY

COMMERCIAL OPERATION

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE OCTOBER 10, 1979

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (215) 841-5022

MONTH SEPTEMBER 1979

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|--|-----|--|
| 1 | 168 | 17 | 0 |
| 2 | 559 | 18 | 0 |
| 3 | 881 | 19 | 0 |
| 4 | 848 | 20 | 0 |
| 5 | 827 | 21 | 0 |
| 6 | 864 | 22 | 0 |
| 7 | 865 | 23 | 0 |
| 8 | 857 | 24 | 0 |
| 9 | 857 | 25 | 0 |
| 10 | 853 | 26 | 0 |
| 11 | 851 | 27 | 0 |
| 12 | 849 | 28 | 0 |
| 13 | 845 | 29 | 0 |
| 14 | 664 | 30 | 0 |
| 15 | 0 | | |
| 16 | 0 | | |

1105 340

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE OCTOBER 10, 1979

REPORT MONTH SEPTEMBER, 1979

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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

1165-341

| NO. | DATE | (1) TYPE | (2) DURATION (HOURS) | (3) REASON | (4) METHOD OF SHUTTING DOWN REACTOR | (5) LICENSEE EVENT REPORT # | (6) SYSTEM CODE | (7) COMPONENT CODE | (8) CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE |
|-----|--------|-------------|----------------------------|---------------|--|--------------------------------------|-----------------------|--------------------------|---|
| 15 | 790901 | F | 19.4 | A | 3 | NONE | MB | RECUMB | LOSS OF VACUUM DUE TO AIR EJECTOR DISCHARGE VALVE RELAY FAILURE |
| 16 | 790914 | S | 384.6 ----- 474.0 | C | 1 | NONE | RC | 222222 | REFUELING AND MAINTENANCE OUTAGE |

- | | | | |
|-----------------------------|--|--|---|
| (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 |

OPERATING DATA REPORT

DOCKET NO. 50 - 278

DATE OCTOBER 10, 1979

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

POOR ORIGINAL

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: SEPTEMBER, 1979
- 3. LICENSED THERMAL POWER (MWT): 3293
- 4. NAMEPLATE RATING (GROSS MWE): 1152
- 5. DESIGN ELECTRICAL RATING (NET MWE): 1061
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1098
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1035

NOTES: THIS UNIT EXPERIENCED NO MAJOR POWER REDUCTION, ONE FORCED OUTAGE AND A REFUELING OUTAGE THAT BEGAN ON 9/15/79.

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 | 720 | 6,551 | 41,831 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 332 | 5,558 | 33,658 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 316.0 | 5,392.3 | 32,822.2 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 854,472 | 16,320,817 | 91,203,953 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 272,490 | 5,358,160 | 29,588,270 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 253,087 | 5,146,897 | 28,390,040 |
| 19. UNIT SERVICE FACTOR | 43.4 | 82.3 | 79.5 |
| 20. UNIT AVAILABILITY FACTOR | 43.4 | 82.3 | 78.5 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 34.0 | 75.9 | 65.6 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 33.0 | 73.8 | 63.7 |
| 23. UNIT FORCED OUTAGE RATE | 5.8 | 2.9 | 6.8 |

24. SHUTDOWNS SCHEDULED OVER NEXT 5 MONTHS (TYPE, DATE, AND DURATION OF EACH):

REFUELING - 9/15/79 - ONE MONTH

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 10/27/79

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

| | | |
|----------------------|-------|-------|
| INITIAL CRITICALITY | ----- | ----- |
| INITIAL ELECTRICITY | ----- | ----- |
| COMMERCIAL OPERATION | ----- | ----- |

1165 342

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 for this unit.
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.

POOR ORIGINAL

1165 343

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 27, 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 for this unit.

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 - 440 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

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NARRATIVE SUMMARY OF OPERATING EXPERIENCES
SEPTEMBER 1979

PEACH BOTTOM UNITS 2 & 3

Unit 2

On September 3 during turbine testing, the mechanical trip valve lockout device failed to function properly and a turbine trip and reactor scram resulted. During recovery, testing of the lockout device was successfully completed and the problem did not reoccur. The unit was returned to service September 4 and reached 100% power early on September 6. On September 7 a load reduction to approximately 73% was taken to accomodate a control rod pattern adjustment. The unit reached rated power on September 9 via a preconditioning ramp.

Unit 3

On September 1 a relay failed and cause the air ejector discharge valve to close. The resultant loss of condenser vacuum caused a reator scram. The relay was repaired and the unit was returned to its maximum coastdown capability of 85% on September 3. The unit was removed from service on September 14 to accommodate its third refueling and maintenance outage. The prerequisites for fuel handling were completed on September 20. During the fuel handling, eight Local Power Range Monitors (LPRM's) were replaced. Scheduled control rod drive change out was completed. Fifteen leaking bundles were identified in the 317 sipped. Fifty-two 7x7 fuel assemblies were returned to the reactor.

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