

PEACH BOTTOM ATOMIC POWER STATION
NARRATIVE SUMMARY OF OPERATING EXPERIENCES
JUNE 1981

UNIT 2 OPERATIONS

The unit remained shutdown for repairs to the "B" Recirculation Pump/Motor and the HPSW piping downstream of the 11B valve. While the unit was being returned to service on June 10, the 2A main transformer experienced an internal fault prior to attaining full operating voltage. Repairs were made to the transformer and the unit was placed in service on June 21. On June 22, the unit tripped on low reactor water level resulting from loss of feedwater. The loss of feedwater was due to the tripping of two condensate pumps when the number 2 13kv bus tripped due to water leakage into the 2G4 breaker grounding the bus. The unit was returned to service on June 23. The unit was removed from service within a few minutes in an effort to maintain condenser vacuum following high hydrogen concentration trips of the Recombiner mechanical compressors. Over the next few days, the unit was cycled on and off a number of times for the same reason.

It was determined that the high hydrogen concentrations at the outlet of the recombiner were the result of oil leakage into the condensate from the water seal drain system of the "A" Reactor Feed Pump.

The unit was returned to service June 25 with major load drops required periodically over the next several days to maintain condenser vacuum each time the Recombiner mechanical compressors tripped on high hydrogen concentration. The situation continued to improve as the oil was removed by special resin used in the condensate demineralizers.

UNIT 3 OPERATIONS

The unit remains shutdown to accommodate refueling, modifications and maintenance work. The Suppression Pool modifications are complete with sand blasting and recoating remaining. The feedwater nozzle machining and sparger replacement is complete.

The in-drywell Core Spray piping replacement has been completed and replacement of the in-drywell Reactor Water Cleanup piping is in progress. Repair of the 2B Recirculation pump motor continues.

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE JULY 13, 1981

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: JUNE, 1981
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
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	4,343	61,271
12. NUMBER OF HOURS REACTOR WAS CRITICAL	310.8	2,950.9	45,503.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	167.6	2,764.6	44,277.4
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	176,784	8,326,154	128,747,226
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	46,740	2,792,340	42,405,440
18. NET ELECTRICAL ENERGY GENERATED (MWH)	39,598	2,690,048	40,649,712
19. UNIT SERVICE FACTOR	23.3	63.7	72.3
20. UNIT AVAILABILITY FACTOR	23.3	63.7	72.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	5.2	58.9	63.1
22. UNIT CAPACITY FACTOR (USING DER NET)	5.2	58.2	62.3
23. UNIT FORCED OUTAGE RATE	76.7	36.3	8.8
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:

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

OPERATING DATA REPORT

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DATE JULY 13, 1981

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OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3
2. REPORTING PERIOD: JUNE, 1981
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 IS DOWN FOR
REFUELING AND MAINTENANCE.

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	4,343	57,167
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0	1,547.7	43,709.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	1,541.8	42,566.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0	4,932,216	121,775,165
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	1,643,900	39,745,940
18. NET ELECTRICAL ENERGY GENERATED (MWH)	* -5,016	1,571,722	38,150,555
19. UNIT SERVICE FACTOR	0.0	35.5	74.5
20. UNIT AVAILABILITY FACTOR	0.0	35.5	74.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	35.0	64.5
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	34.0	62.7
23. UNIT FORCED OUTAGE RATE	0.0	1.1	7.3

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
REFUELING/MAINTENANCE, 3/06/81, TWENTYTHREE WEEKS

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

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

* - NEGATIVE VALUE REPORTED FOR CONSISTENCY WITH FEDERAL ENERGY REGULATORY COMMISSION REPORTS.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE JULY 13, 1981

COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN
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GENERATION DIVISION-NUCLEAR

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MONTH JUNE 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	108
6	0	22	190
7	0	23	0
8	0	24	9
9	0	25	61
10	0	26	129
11	0	27	197
12	0	28	362
13	0	29	319
14	0	30	420
15	0		
16	0		

AVERAGE DAILY UNIT POWER LEVEL

DUCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE JULY 13, 1981

COMPANY PHILADELPHIA ELECTRIC COMPANY

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MONTH JUNE 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0	17	0
2	0	18	0
3	0	19	0
4	0	20	0
5	0	21	0
6	0	22	0
7	0	23	0
8	0	24	0
9	0	25	0
10	0	26	0
11	0	27	0
12	0	28	0
13	0	29	0
14	0	30	0
15	0		
16	0		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE JULY 13, 1981

REPORT MONTH JUNE, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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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
13	810601	F	41.0	A	1	NA	CB	MOTORX	CONTINUING OUTAGE DUE TO 2B REACTOR RECIRCULATION PUMP MOTOR BEARING FAILURE.
14	810602	F	165.0	A	4	NA	SB	PIPEXX	CRACKS FOUND IN HPSW LINE, "B" LOOP, RESULTING IN OUTAGE EXTENSION.
15	810610	F	235.2	A	4	NA	EB	TRANSF	HIGH COMBUSTIBLES ON THE "A" PHASE TRANSFORMER. REPLACED TRANSFORMER. OUTAGE CONTINUES.
16	810620	F	29.8	A	3	NA	CC	VALVEX	71-H RELIEF VALVE OPENED AT 750 PSIG. VALVE WAS THEN REPLACED. OUTAGE CONTINUES.
17	810622	F	24.7	B	3	NA	EB	CKTBRK	REACTOR SCRAM ON LOW LEVEL DUE TO LOSS OF 13KV BUS WHICH TRIPPED TWO CONDENSATE PUMPS, TWO CIRCULATION PUMPS AND ONE RECIRCULATION PUMP. WATER DRAINED INTO 13KV BREAKER CAUSING ITS "B" PHASE TO SHORT TO GROUND AND TRIPPED NUMBER 2 START-UP BUS.
18	810623	F	19.8	A	4	2-81-35-1-P	XX	XXXXXX	GENERATOR WAS MANUALLY TAKEN OFF LINE AS A RESULT OF "A" REACTOR FEED PUMP LUBE OIL

(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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE JULY 13, 1981

REPORT MONTH JUNE, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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TELEPHONE

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
									ENTERING THE CONDENSER AND INCREASING THE HYDROGEN CONTENT OF OFF-GAS TO THE RECOMBINER.
19	810624	F	6.7	A	4	2-81-35-1-P	XX	XXXXXX	SAME REASON AS STATED ABOVE.
20	810624	F	3.2	A	4	2-81-35-1-P	XX	XXXXXX	SAME REASON AS STATED ABOVE.
			552.4						

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

(5)

EXHIBIT 1 - SAME SOURCE

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE JULY 13, 1981

REPORT MONTH JUNE, 1981

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NO.	DATE	TYPE (1)	DURATION (HOURS) (2)	REASON (3)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
6	810601	S	720.0 ----- 720.0	C	1	NA	RA	FUELXX	CONTINUING REFUELING 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

Attachment to
Monthly Operating Report
For June, 1981

REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

January 2, 1982

3. Scheduled date for restart following refueling:

February 13, 1982

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 Specifications to accommodate reload fuel.
Modifications to reactor core operating limits are expected.

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

November 13, 1981

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:

None expected.

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 - 910 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, 1990

Attachment to
Monthly Operating Report
For June, 1981

REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 3

2. Scheduled date for next refueling shutdown:

Refueling Began
March 6, 1981

3. Scheduled date for restart following refueling:

August 14, 1981

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

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

Submitted
March 30, 1981

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:

None expected.

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 - 712 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