

BUCKET NO. 50 - 277

DATE NOVEMBER 16, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.H. 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: OCTOBER, 1981
- 3. LICENSED THERMAL POWER (MWT): 3293
- 4. NAMEPLATE RATING (GROSS MWE): 1152
- 5. DESIGN ELECTRICAL RATING (NET MWE): 965
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1098
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1051

NOTES: UNIT 2 EXPERIENCED  
ONE OUTAGE AND  
TWO POWER REDUCTIONS.

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	745	7,296	64,224
12. NUMBER OF HOURS REACTOR WAS CRITICAL	728.3	5,726.9	48,279.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	716.8	5,491.1	47,003.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,134,025	16,443,357	136,864,429
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	699,920	5,467,420	45,080,520
18. NET ELECTRICAL ENERGY GENERATED (MWH)	672,896	5,260,177	43,219,841
19. UNIT SERVICE FACTOR	96.5	75.3	73.2
20. UNIT AVAILABILITY FACTOR	96.5	75.3	73.2
21. UNIT CAPACITY FACTOR (USING MDC NET)	85.9	68.6	64.0
22. UNIT CAPACITY FACTOR (USING DER NET)	84.8	67.7	63.2
23. UNIT FORCED OUTAGE RATE	3.5	22.6	8.3

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: 5/26/82

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

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE NOVEMBER 16, 1981

COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN  
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NUCLEAR SECTION  
GENERATION DIVISION-NUCLEAR

TELEPHONE (215) 841-5022

MONTH OCTOBER 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	997	17	774
2	995	18	795
3	991	19	910
4	991	20	1015
5	986	21	1034
6	982	22	1032
7	990	23	1020
8	987	24	692
9	978	25	932
10	611	26	1016
11	747	27	1043
12	887	28	1037
13	1039	29	1038
14	610	30	1039
15	83	31	1039
16	748		

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE NOVEMBER 16, 1981

REPORT MONTH OCTOBER, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN  
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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
29	811009	S	00.0	H	4	NA	RC	ZZZZZ	LOAD REDUCTION TAKEN FOR CONTROL ROD ADJUSTMENT AND TO REMOVE THE 5TH FEEDWATER HEATERS FROM SERVICE.
30	811014	F	26.2	A	3	NA	IB	INSTRU	DURING AN INVESTIGATION OF THE ECCS INSTRUMENTATION, POWER SUPPLY FUSES WERE REMOVED ON ONE OF THE POWER SUPPLY LINES AND THE REDUNDANT POWER SUPPLY FAILED CAUSING RECIRCULATION PUMP AND TURBINE TRIPS RESULTING IN A SCRAM.
31	811023	S	00.0 <hr/> 26.2	H	4	NA	RC	ZZZZZ	LOAD REDUCTION TAKEN FOR CONTROL ROD ADJUSTMENT.

(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

PEACH BOTTOM ATOMIC POWER STATION  
NARRATIVE SUMMARY OF OPERATING EXPERIENCES  
October, 1981

UNIT 2 OPERATIONS

Power was reduced to approximately 50% on October 9 to accommodate a control rod pattern adjustment and to remove the fifth feedwater heaters from service to improve end of life power levels. The unit was returned to full power late on October 12.

The reactor scrambled on October 14 during on line maintenance of an ECCS power supply. All four power supplies were replaced to correct a 4 volt ripple in the 24 volt DC output which was causing setpoint drift in ECCS instrumentation. The unit was returned to service on October 15. The unit reached full power on October 19 following delays in the rise to power due to failure of the 2A condensate pump motor.

Load was reduced by approximately 50 MWe on October 20 for approximately eleven hours due to high bearing vibration. The problem was corrected by adjusting the generator hydrogen cooling water.

Load was reduced to 650 MWe on October 23, 1981 to accommodate a control rod pattern adjustment. The unit reached full load on October 26, 1981.

During the reporting period, repairs were completed to the vertical drive and one cylinder of the E-4 diesel generator. Leaks on a fuel oil injector, cooling water fitting, and emergency service water outlet bellows expansion joint for the E-3 diesel engine heat exchangers were also corrected.

The HPCI system gland seal condenser gasket was replaced during this month.

Additionally, during the period, a failed reactor protective system relay was replaced to correct a false "A" channel half-scam.

### UNIT 3 OPERATIONS

The reactor was returned to service on October 2 following completion of the Unit 3 fourth refueling outage. The unit was not returned to service until October 23. Between October 2 and October 23, return to service was delayed due to repairs to two turbine-generator bearings caused by insufficient lubricating oil flow, steam jet air ejector start-up difficulties, and a false condenser low vacuum scram.

Load was reduced on October 24 to accommodate overspeed trip testing of the main turbine. The unit reached a limit of 83% power on October 30 pending correction of a high vibration problem with the 3 'B' condensate pump motor.

REFUELING INFORMATION

1. Name of facility:  
Peach Bottom Unit 2
2. Scheduled date for next refueling shutdown:  
February 20, 1982
3. Scheduled date for restart following refueling:  
May 26, 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:  
February 24, 1982
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

DOCKET NO. 50 - 278

DATE NOVEMBER 16, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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

OPERATING STATUS

- 1. UNIT NAME: PEACE BOTTOM UNIT 3
- 2. REPORTING PERIOD: OCTOBER, 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: UNIT 3 RETURNED  
TO OPERATION  
ON OCTOBER 23, 1981.  
IT EXPERIENCED  
TWO MAJOR OUTAGES  
(REFUELING, REPLACE  
TURBINE BEARING).

- 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	745	7,296	60,120
12. NUMBER OF HOURS REACTOR WAS CRITICAL	313.5	1,861.2	48,023.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	196.2	1,738.0	42,762.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	372,365	5,304,581	122,147,530
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	113,150	1,757,050	39,859,090
18. NET ELECTRICAL ENERGY GENERATED (MWH)	102,211	1,650,022	38,228,865
19. UNIT SERVICE FACTOR	26.3	23.8	71.1
20. UNIT AVAILABILITY FACTOR	26.3	23.8	71.1
21. UNIT CAPACITY FACTOR (USING NDC NET)	13.3	21.9	61.4
22. UNIT CAPACITY FACTOR (USING DER NET)	17.9	21.2	59.7
23. UNIT FORCED OUTAGE RATE	68.6	20.4	8.2

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	-----	-----



DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE NOVEMBER 16, 1981

COMPANY PHILADELPHIA ELECTRIC COMPANY

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

TELEPHONE (215) 841-5022

MONTH OCTOBER 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	1
8	0	24	275
9	0	25	179
10	0	26	310
11	0	27	510
12	0	28	687
13	0	29	791
14	0	30	878
15	0	31	891
16	0		



UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE NOVEMBER 16, 1981

REPORT MONTH OCTOBER, 1981

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NO.	DATE	TYPE (11)	DURATION (HOURS)	REASON (12)		METHOD OF (13)		LICENSE EVENT REPORT # (14)	SYSTEM CODE (15)	COMPONENT CODE (16)	ACTION TO PREVENT RECURRENCE (17)
				(1)	(2)	(3)	(4)				
6	811001	S	120.6	C		1		NA	RC	FUELXX	CONTINUING REFUEL OUTAGE, EXTENDED DUE TO 'E-4' DIESEL GENERATOR TURBO CHARGER FAILURE ON SEPTEMBER 21, 1981.
7	811004	F	00.0	A		3		NA	HC	RELOMB	REACTOR SCRAM ON LOW CONDENSOR VACUUM DUE TO PROBLEMS ON THE STEAMJET AIR EJECTOR.
8	811006	F	427.8	G		1		NA	HA	TURBIN	TURBINE TRIPPED ON HIGH VIBRATION DUE TO NUMBER 9 BEARING FAILURE BECAUSE OF INADEQUATE OIL SUPPLY.
9	811022	F	00.0	G		3		NA	IA	INSTRU	REACTOR FULL SCRAM: 'A' CHANNEL HALF SCRAM WAS MANUALLY INSERTED DUE TO DEFECTIVE 'RPS' INSTRUMENT, 'S 3-5-12A', 'B' CHANNEL HALF SCRAM OCCURRED BECAUSE PT 3-5-11B WAS VALVED OUT AND COULD NOT SENSE CONDENSOR VACUUM. WHEN THE REACTOR PRESSURE REACHED 600 PSIG THE HALF SCRAM OCCURRED.
10	811024	S	00.4	B		4		NA	XX	XXXXXX	GENERATOR CAME OFF-LINE FOR THE TURBINE OVERSPEED TRIP TEST.

(11)

F - FORCED  
S - SCHEDULED

(12)

REASON  
A - EQUIPMENT FAILURE (EXPLAIN)  
B - MAINTENANCE OR TEST  
C - REFUELLING  
D - REGULATORY RESTRICTION  
E - OPERATOR TRAINING + LICENSE EXAMINATION  
F - ADMINISTRATIVE  
G - OPERATIONAL ERROR (EXPLAIN)  
H - OTHER (EXPLAIN)

(13)

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

(14)

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

(15)

EXHIBIT I - SAME SOURCE

UNIT SHUTDOWNS AND POWER REDUCTIONS

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DATE NOVEMBER 16, 1981

REPORT MONTH OCTOBER, 1981

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NO.	DATE	TYPE (1)	DURATION (HOURS) (2)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
11	811026	F	00.0 ----- 548.8	B	4	NA	HA	GENERA	LOAD REDUCED TO RESTORE RECTIFIER BANK ASSOCIATED WITH THE GENERATOR.

(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

REFUELING INFORMATION

1. Name of facility:  
Peach Bottom Unit 3
2. Scheduled date for next refueling shutdown:  
Refueling starts February 5, 1983
3. Scheduled date for restart following refueling:  
March 18, 1983
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:  
December 17, 1982
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 - 928 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