Peach Bottom Atomic Power Station
Narrative Summary of Operating Experience
January, 1987

UNIT 2

Unit 2 operated at full power until January 10.

On January 10, load was reduced to approximately 620 MWe to accommodate control rod pattern adjustment and condenser waterbox tube leak inspections. Load recovery was completed on January 12. Load was again reduced on January 16 to 680 MWe for control rod pattern adjustment and condenser waterbox tube leak inspections. Full load was recovered on January 19.

On January 28, load was reduced to 75% power following a trip of the "A" reactor feedpump turbine. Unit 2 ended the report period operating at approximately 80% power with repairs to the "A" reactor feedpump turbine coupling and overspeed trip mechanism in progress.

UNIT 3

Unit 3 began the report period starting up following a mini-outage for maintenance. The turbine generator was placed on-line early on January 1.

On January 2, the reactor was manually shutdown to repair a steam leak on the 'D' main steam line inlet flange connection to the high pressure stage of the main turbine. Startup commenced on January 6 following the completion of the flange repair, and the turbine-generator was synchronized to the grid on January 7.

Unit 3 operated at reduced loads (approximately 20-68%) from January 8 through January 13 due to persistent reactor water chemistry problems. Condenser tube leaks were determined to be the cause. Following condenser tube leak repairs, load was increased to 90% power where it was maintained to accommodate repairs to the 'G' and 'K' condensate filter demineralizer.

Unit 3 ended the report period operating at full load.

IE24
1/1

Docket No. 50-277
Attachment to
Monthly Operating
Report for January, 1987

UNIT 2 REFUELING INFORMATION

1. Name of facility:

   Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

   March 14, 1987

3. Scheduled date for restart following refueling:

   May 23, 1987

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.

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

   Reload 7 license amendment submitted January 9, 1987.

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 - 1462 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. Replacement higher density fuel racks were approved by the NRC on February 19, 1986 which increases the licensed fuel pool capacity to a total of 3819 fuel bundles in each fuel pool. This modification was completed on November 15, 1986.

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, prior to the completion of the new fuel racks installation:

March, 1998 (March 1995, with reserve full core discharge)

Docket No. 50-278
Attachment to
Monthly Operating
Report for January, 1987

UNIT 3 REFUELING INFORMATION

1. Name of facility:

   Peach Bottom Unit 3

2. Scheduled date for next refueling shutdown:

   September 12, 1987

3. Scheduled date for restart following refueling:

   June 17, 1988

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.

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

   Reload 7 License Amendment to be submitted February 5, 1988

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 - 1496 Fuel Assemblies, 6 Fuel Rods

UNIT 3 REFUELING INFORMATION (Continued)

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. Replacement higher density fuel racks were approved by the NRC on February 19, 1986 which increases the licensed fuel pool capacity to a total of 3819 fuel bundles in each fuel pool. This modification is scheduled to begin on February 20, 1987 and should be completed in mid July, 1987.

9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present capacity, prior to the completion of the new fuel racks installation:

   March, 1993 (September, 1987, with reserve full core discharge)

10. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the relicensed capacity, subsequent to the completion of the new fuel racks installation:

    March, 1999 (March, 1996, with reserve full core discharge)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE FEBRUARY 15,1987

COMPANY PHILADELPHIA ELECTRIC COMPANY

L. L. MIDDLETON
TECHNICAL ASSISTANT
LICENSING SECTION
NUCLEAR SUPPORT DEPARTMENT

TELEPHONE (215) 841-6374

MONTH JANUARY 1987

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1076	17	680
2	1072	18	867
3	1070	19	1057
4	1072	20	1074
5	1069	21	1078
6	1071	22	1074
7	1075	23	1076
8	1075	24	1075
9	1079	25	1075
10	711	26	1075
11	843	27	1077
12	1066	28	954
13	1075	29	846
14	1073	30	857
15	1075	31	857
16	1072		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE FEBRUARY 15,1987

COMPANY PHILADELPHIA ELECTRIC COMPANY

L. L. MIDDLETON
TECHNICAL ASSISTANT
LICENSING SECTION
NUCLEAR SUPPORT DEPARTMENT

TELEPHONE (215) 841-6374

MONTH JANUARY 1987

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	344	17	963
2	383	18	968
3	0	19	988
4	0	20	1050
5	0	21	1056
6	0	22	1061
7	107	23	1069
8	425	24	1071
9	674	25	1070
10	677	26	1074
11	680	27	1074
12	775	28	1069
13	690	29	1071
14	889	30	1072
15	961	31	1072
16	970		

OPERATING DATA REPORT

DOCKET NO. 50 - 277

DATE FEBRUARY 15,1987

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

L. L. MIDDLETON
TECHNICAL ASSISTANT
LICENSING SECTION
NUCLEAR SUPPORT DEPARTMENT
TELEPHONE (215) 841-6374

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 2
2. REPORTING PERIOD: JANUARY, 1987
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: UNIT 2 EXPERIENCED TWO SCHEDULED LOAD REDUCTIONS AND ONE FORCED LOAD REDUCTION.

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	744	110,256
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	744.0	73,211.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	744.0	70,886.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,308,656	2,308,656	210,140,025
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	771,510	771,510	69,142,510
18. NET ELECTRICAL ENERGY GENERATED (MWH)	751,053	751,053	66,239,913

DATE FEBRUARY 15,1987

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	100.0	64.3
20. UNIT AVAILABILITY FACTOR	100.0	100.0	64.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	96.0	96.0	57.2
22. UNIT CAPACITY FACTOR (USING DER NET)	94.8	94.8	56.4
23. UNIT FORCED OUTAGE RATE	0.0	0.0	13.5

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
REFUELING OUTAGE
MARCH 14, 1987 TO MAY 23, 1987

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		09/16/73
INITIAL ELECTRICITY		02/18/74
COMMERCIAL OPERATION		07/05/74

OPERATING DATA REPORT

DOCKET NO. 50 - 278

DATE FEBRUARY 15,1987

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

L. L. MIDDLETON
TECHNICAL ASSISTANT
LICENSING SECTION
NUCLEAR SUPPORT DEPARTMENT
TELEPHONE (215) 841-6374

OPERATING STATUS

1. UNIT NAME: PEACH BOTTOM UNIT 3
2. REPORTING PERIOD: JANUARY, 1987
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 EXPERIENCE TWO FORCED OUTAGES.

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	744	106,152
12. NUMBER OF HOURS REACTOR WAS CRITICAL	645.8	645.8	75,178.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	633.8	633.8	72,903.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,733,904	1,733,904	212,253,557
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	575,480	575,480	69,631,352
18. NET ELECTRICAL ENERGY GENERATED (MWH)	558,653	558,653	66,800,746

DATE FEBRUARY 15,1987

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	85.2	85.2	68.7
20. UNIT AVAILABILITY FACTOR	85.2	85.2	68.7
21. UNIT CAPACITY FACTOR (USING MDC NET)	72.5	72.5	60.8
22. UNIT CAPACITY FACTOR (USING DER NET)	70.5	70.5	59.1
23. UNIT FORCED OUTAGE RATE	14.8	14.8	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:

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 FEBRUARY 15,1987

REPORT MONTH JANUARY, 1987

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

L. L. MIDDLETON
TECHNICAL ASSISTANT
LICENSING SECTION
NUCLEAR SUPPORT DEPARTMENT
TELEPHONE (215) 841-6374

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
1	870110	S	000.0	H	4	N/A	RB	CONROD	LOAD REDUCTION TO 60% FOR CONTROL ROD PATTERN ADJUSTMENT AND CONDENSER WATERBOX MAINTENANCE.
2	870116	S	000.0	H	4	N/A	RB	CONROD	LOAD REDUCTION TO 60% FOR CONTROL ROD PATTERN ADJUSTMENT AND CONDENSER WATERBOX MAINTENANCE.
3	870128	F	000.0	A	4	N/A	CH	MECFUN	LOAD REDUCTION TO 78% DUE TO AN OVERSPEED TRIP ON 2A FEED PUMP.
			-						

(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 FEBRUARY 15,1987

REPORT MONTH JANUARY, 1987

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

L. L. MIDDLETON
TECHNICAL ASSISTANT
LICENSING SECTION
NUCLEAR SUPPORT DEPARTMENT
TELEPHONE (215) 841-6374

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
4	870101	F	001.9	H	1	N/A	HB	PIPEXX	MANUAL SHUTDOWN FOR STEAM LEAK REPAIRS ON THE "C" MOISTURE SEPARATOR DRAIN TANK MANWAY AND THE "D" INLET FLANGE CONNECTION TO THE HIGH PRESSUE TURBINE. (12/28/86)
1	870102	F	108.3	H	1	N/A	HB	PIPEXX	MANUAL SHUTDOWN FOR STEAM LEAK REPAIRS ON THE "D" INLET FLANGE CONNECTION TO THE HIGH PRESSURE TURBINE.
			110.2						

(1)

- FORCED
- 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

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

(215) 841-4000

February 13, 1987

Docket Nos. 50-277
50-278

Director
Office of Inspection & Enforcement
US Nuclear Regulatory Commission
Washington, DC 20555

Attention: Document Control Desk

SUBJECT: Peach Bottom Atomic Power Station
Monthly Operating Report

Gentlemen:

Attached are twelve copies of the monthly operating report for Peach Bottom Units 2 and 3 for the month of January, 1987, forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Very truly yours,

W. M. Alden
Engineer-In-Charge
Licensing Section
Nuclear Support Department

Attachment

cc: Dr. T. E. Murley, NRC
Mr. T. P. Johnson, Resident Inspector
Mr. Stan P. Mangi, Dept. of Envir. Resources
Mr. P. A. Ross, NRC (2 copies)
Mr. R. J. Clark, NRC Project Manager
Mr. Thomas Magette, Maryland Power Plant Siting
INPO Records Center

IE24
1/1