Docket Nos. 50-277/50-278 Attachment to Monthly Operating Report for February, 1986

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Peach Bottom Atomic Power Station Narrative Summary of Operating Experiences February, 1986

# UNIT 2

The unit began the report period shutdown for a maintenance outage to repair the E-2 diesel generator, inspection of snubbers in the drywell and replacement of the 2B Residual Heat Removal (RHR) pump impeller and wear rings.

On February 6, the reactor was started, and the turbine-generator was synchronized later that day. Full power operation was achieved on February 11.

On February 15, a load reduction to 760 MWE was taken to accommodate a control rod pattern adjustment. The unit returned to full power later that day and maintained full power operation for the remainder of the month.

## Unit 3

The unit began the report period shutdown for its sixth refueling and maintenance outage. Return to service is scheduled for early March, 1986.

The Loss of Offsite Power Test was completed on February 7.

On February 12, the turbine oil system was placed into service with the turbine-generator on turning gear. Condenser vacuum was established on February 14.

On February 16, a blown fuse, resulting from a short in a ribbon cable on the condenser vacuum recorder, caused the reject valves from the hotwell to the condensate storage tank (CST) to fail open, thereby directing a portion of the operating condensate pump's flow to the CST. As a result, the CST overflowed into the surrounding moat. The water drained through two holes that had been left unsealed in the floor of the moat, entered a nearby yard sump, and was then pumped to the river via the storm drains. The total release was estimated to be 36,000 gallons with a total activity of 0.37 curies. This was within the allowable limits of Technical Specifications. At a meeting on February 21 to discuss the failure of the controller for the reject valve, the NRC requested that PECo repair the moat surrounding the CST prior to startup. The repairs to the moat were completed on February 27.

On February 14, all work in the drywell was completed. Checkoff lists for startup were completed on February 24.

8603210010 860228 PDR ADDCK 05000277 R PDR  Docket Nos. 50-277/50-278 Attachment to Monthly Operating Report for February, 1986 Page 2
 Activities in progress as of the end of the report period in February, 1986 Page 2
 - 3B Recirculation System Motor-Generator (M-G) set balance work,
 - RHR MO-10-39A valve repair and Local Leak Rate Test (LLRT), and
 - LLRT for the High Pressure Coolant Injection (HPCI)

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LLM/vdw

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Docket Nos. 50-277/50-278 Attachment to Monthly Operating Report for February, 1986 Page 2

Activities in progress as of the end of the report period in preparation for startup included:

- 3B Recirculation System Motor-Generator (M-G) set balance work,
- RHR MO-10-39A valve repair and Local Leak Rate Test (LLRT), and
- LLRT for the High Pressure Coolant Injection (HPCI) system AO-23-18 valve.

LLM/vdw

Docket No. 50-277 Attachment to Monthly Operating Report for February, 1986

#### REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 2

2. Scheduled date for next refueling shutdown:

January 31, 1987

3. Scheduled date for restart following refueling:

May 1, 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 to be submitted December 12, 1986.

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.

Docket No. 50-278 Attachment to Monthly Operating Report for February, 1986

#### REFUELING INFORMATION

1. Name of facility:

Peach Bottom Unit 3

2. Scheduled date for next refueling shutdown:

May 16, 1987

3. Scheduled date for restart following refueling:

May 14, 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 January 7, 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

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.

#### AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 277

UNIT PEACH BOTTOM UNIT 2

DATE MARCH 14,1986

COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M.ALDEN

ENGINEER-IN-CHARGE LICENSING SECTION NUCLEAR GENERATION DIVISION

------

#### TELEPHONE (215) 841-5022

MONTH FEBRUARY 1986

#### AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE MAPCH 14,1986

\*

COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M.ALDEN

ENGINEER-IN-CHARGE LICENSING SECTION NUCLEAR GENERATION DIVISION

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### TELEPHONE (215) 841-5022

MONTH FEBRUARY 1986

.

DAY AVER	AGE DAILY POWER (MWE-NET)	LEVEL	DAY	AILY POWER L WE-NET)	EVEL
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				
14	0				
15	0				
16	0				

		DOCKET NO	. 50 - 277
		DAT	E MARCH 14,1986
	c	COMPLETED E	Y PHILADELPHIA ELECTRIC COMPANY
		TELEPHON	W.M.ALDEN ENGINEER-IN-CHARGE LICENSING SECTION NUCLEAR GENERATION DIVISION E (215) 841-5022
OPERATING STATUS			
. UNIT NAME: PEACH BOTTOM UNIT 2			
. REPORTING PERIOD: FEBRUARY, 1986		1	SCRAM, AND ONE SCHEDULED
. LICENSED THERMAL POWER(MWT):	3293	i	LOAD REDUCTION.
. NAMEPLATE RATING (GROSS MWE):		1	
. DESIGN ELECTRICAL RATING (NET MWE):	1065	1 - 1 - ( L 1	
. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE):	1098	1	
. MAXIMUM DEPENDABLE CAPACITY (NET MWE):	1051	1	i

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	672	1,416	102,168
12. NUMBER OF HOURS REACTOR WAS CRITICAL	547.2	985.7	66,179.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	533.7	944.8	64,073.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,628,671	2,670,312	188,936,827
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	534,180	869,150	62,082,110
18. NET ELECTRICAL ENERGY GENERATED (MWH)	516,156	837,067	59,429,362
19. UNIT SERVICE FACTOR	79.4	66.7	62.7
			**********

62.7
55.3
54.6
13.3

.

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:

1.1.1

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

				UNIT	SHUTDO	ANS AND	POWER REDUC	стг	0115			D	OCKET NO.	50 - 277
													UNIT NAME	PEACH BOTTOM UNIT 2
														***************************************
													DATE	MARCH 14,1986
					PEPORT	HONTH	FEBRUARY, 19	986				COM	PLETED BY	PHILADELPHIA ELECTRIC COMPANY
					Report						- 11-1	6.011	PLUTLO DI	
														W.M.ALDEN
														ENGINEER-IN-CHARGE
														LICENSING SECTION
														NUCLEAR GENERATION DIVISION
													TELEPHONE	(215) 841-5022
														***************************************
1		E I		I	I METH	DD OF	LICENSEE	1	SYSTEM	MIC	OMPONEN	ITI	CAUSE AND	CORRECTIVE
- 1							EVENT							
1.01	DATE	(1)	(HOURS)	)  (2)	I REACTO	DR (3)	REPORT #	- 1	(4)	1	(5)	1	PREVENT RE	CURRENCE
0 1	260201	1 = 1	138.3	1	1	-	0.04.7	1		1	THE THE	1		
91	860201	1 1	138.5	1 4	1 3	5	2-86-3	1	EE	1				OPERABLE. SCRAM FROM 96% POWER DUE TO
1		1 1		1	1 I		1.1		42	1				THE E-2 DIESEL GENERATOR.
1		1 1		1	1			1		1		1	FAILURE OF	THE E-2 DIESEL GENERATOR.
0 1	860215	ISI	0.0	I B	Î Y	4	N/A	i	RC	i	777777	i		TION TO 760 MWE FOR CONTROL ROD
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1		1 1	138.3	1	1		· · ·	- 1		1		1		
	(1)			(2)							(3)			(4)
- 1	FORCED	R	EASON						METH	HOD	0		E	EXHIBIT G - INSTRUCTIONS
	SCHEDULE	D A	- EQUIP	MENT FA	ILURE (	EXPLAIN	)		1 -	MA	NUAL		F	FOR PREPARATION OF DATA
		8	- MAINT	TENANCE	OR TEST				2 -	MA	HUAL SC	RAM	f. E	ENTRY SHEETS FOR LICENSEE
			- REFUE	electric .										EVENT REPORT (LER)
										OT	THER LEX	PLA	IN)	FILE (NUREG-0161)
						LICENSE	E EXAMINATIO	ON						
			- ADMIN											(5)
			- OPERA			EXPLAIN	1							
		н	I - OTHER	TEXPLAI	NJ.								E	EXHIBIT I - SAME SOURCE

20. UNIT AVAILABILITY FACTOR	0.0	0.0	68.2
	*********		**********
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	0.0	60.5
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	0.0	58.8
			*****
23. UNIT FORCED OUTAGE RATE	0.0	0.0	7.1

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH): SCHEDULED SHUTDOWN FOR REFUELING AND MAINTENANCE OUTAGE, STARTED 7/14/85

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 3/2/86

26. UNITS IN TEST	STATUS (PRI" TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
	INITIAL CRITICALITY		08/07/74
	INITIAL ELECTRICITY		09/01/74
	COMMERCIAL OPERATION		12/23/74

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

		DOCKET NO	. 50 - 278
		DAT	E MARCH 14,1986
	c	OMPLETED B	Y PHILADELPHIA ELECTRIC COMPANY
			W.M.ALDEN ENGINEER-IN-CHARGE
			LICENSING SECTION NUCLEAR GENERATION DIVISION
		TELEPHON	E (215) 841-5022
OPERATING STATUS			
. UNIT NAME: PEACH BOTTOM UNIT 3		I NOTES:	UNIT 3 CONTINUED ITS SIXTH
. REPORTING PERIOD: FEBRUARY, 1986			REFUELING AND MAINTENANCE
. LICENSED THERMAL POWER(MWT):		L	OUTAGE. I
. NAMEPLATE RATING (GROSS MWE):		1	
. DESIGN ELECTRICAL RATING (NET MWE):	1065	ł	1
. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE):	1098	1	
. MAXIMUM DEPENDABLE CAPACITY (NET MWE):	1035	1	
the second se			

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	672	1,416	98,064
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0	0	68,613.2
			**********
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	0.0	66,854.4
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0	0	194,996,664
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0		63,993,670
18. NET ELECTRICAL ENERGY GENERATED (MWH)	* -4,141	* -9,484	61,383,257
19. UNIT SERVICE FACTOR	0.0	0.0	68.2

		UNIT SHUTDOWNS AND P	POWER REDUC	TIONS		DOCKET NO.	
						UNIT NAME	PEACE BOTTOM UNIT 3
						DATE	MARCH 14,1986
		REPORT MONTH FE	BRUARY, 19	86	с	OMPLETED BY	PHILADELPHIA ELECTRIC COMPANY
							W.M.ALDEN ENGINEER-IN-CHARGE LICENSING SECTION NUCLEAR GENERATION DIVISION (215) 841-5022
1 ITY	PEIDURATIONIR	METHOD OF   REASON SHUTTING DOWN  (2)   REACTOR (3)	EVENT	I CODE	CODE	ACTION	то
I I	I I	I I				1	
860201	1 1		H/A	I RC I		I SHUTDOWN I I OUTAGE.	FOR SIXTH REFUELING AND MAINTENANC
i i	672.0	1 1		T.		I	
(1)	(	2)			(3)		(4)
- FORCED - SCHEDULED	A - EQUIPME	NT FAILURE (EXPLAIN)		1 - 1	DD 1ANUAL 1ANUAL SCR		EXHIBIT G - INSTRUCTIONS FOR PREPARATION OF DATA ENTRY SHEETS FOR LICENSEE
	C - REFUELI			3 - /	UTOMATIC	SCRAM.	EVENT REPORT (LER) FILE (NUREG-0161)
	E - OPERATO F - ADMINIS	R TRAINING + LICENSE	EXAMINATIO	М			(5)
	G - OPERATI H - OTHER(E	CONAL ERROR (EXPLAIN)					EXHIBIT I - SAME SOURCE

# PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

March 14, 1986

(215) 841-4000

Docket Nos. 50-277 50-278

TELY

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 February, 1986 forwarded pursuant to Technical Specification 6.9.1.d under the guidance of Regulatory Guide 10.1, Revision 4.

Very truly yours,

Uren. Aller For

R. H. Logue Superintendent Nuclear Services

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. Thomas Magette, Maryland Power Plant Siting INPO Records Center