

DOCKET NO. 50 - 277

DATE AUGUST 12, 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: JULY, 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	744	5,087	62,015
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	5,654.9	46,247.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	3,508.6	45,021.4
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,149,646	10,475,800	130,896,872
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	706,890	3,499,230	43,112,330
18. NET ELECTRICAL ENERGY GENERATED (MWH)	680,499	3,370,547	41,330,211
19. UNIT SERVICE FACTOR	100.0	69.0	72.6
20. UNIT AVAILABILITY FACTOR	100.0	69.0	72.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	87.0	63.0	63.4
22. UNIT CAPACITY FACTOR (USING DER NET)	85.9	62.2	62.6
23. UNIT FORCED OUTAGE RATE	0.0	31.0	8.6

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 TFST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	-----	-----
INITIAL ELECTRICITY	-----	-----
COMMERCIAL OPERATION	-----	-----

OPERATING DATA REPORT

DOCKET NO. 50 - 278

DATE AUGUST 2, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN  
ENGINEER-IN-CHARGE  
NUCLEAR SECTION  
GENERATION DIVISION-NUCLEAR  
TELEPHONE (15) 841-5022

OPERATING STATUS

- 1. UNIT NAME: PEACH BOTTOM UNIT 3
- 2. REPORTING PERIOD: JULY, 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.  
STARTUP SCHEDULED FOR  
SEPTEMBER 7, 1981

- 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	5,087	57,911
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)	* -6,957	1,564,965	38,143,608
19. UNIT SERVICE FACTOR	0.0	30.3	73.5
20. UNIT AVAILABILITY FACTOR	0.0	30.3	73.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	29.7	63.6
22. UNIT CAPACITY FACTOR (USING DER NET)	0.0	28.9	61.8
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, STARTED 3/06/81, TWENTYSIX WEEKS

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: 09/07/81

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

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UNIT PEACH BOTTOM UNIT 2

DATE AUGUST 12, 1981

COMPANY PHILADELPHIA ELECTRIC COMPANY

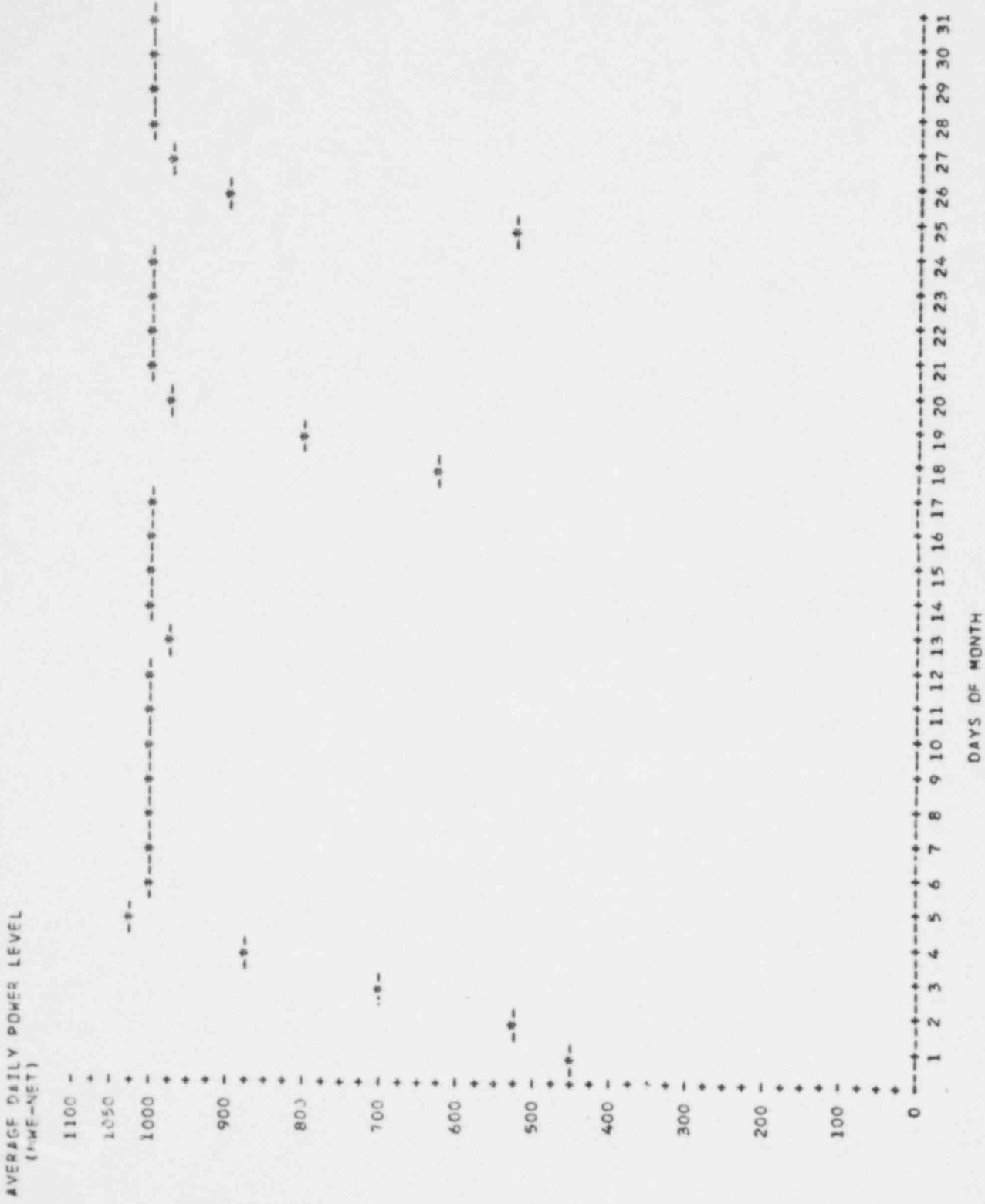
W.M. ALDEN  
ENGINEER-IN-CHARGE  
NUCLEAR SECTION  
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TELEPHONE (215) 841-5022

MONTH JULY 1981

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	460	17	993
2	531	18	633
3	708	19	788
4	873	20	975
5	1020	21	1004
6	1009	22	1010
7	1008	23	1009
8	1005	24	1008
9	1003	25	531
10	995	26	893
11	990	27	984
12	991	28	998
13	983	29	992
14	988	30	993
15	995	31	990
16	995		

PEACH BOTTOM UNIT 2 AVERAGE DAILY POWER LEVEL JULY, 1981



AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 278

UNIT PEACH BOTTOM UNIT 3

DATE AUGUST 12, 1981

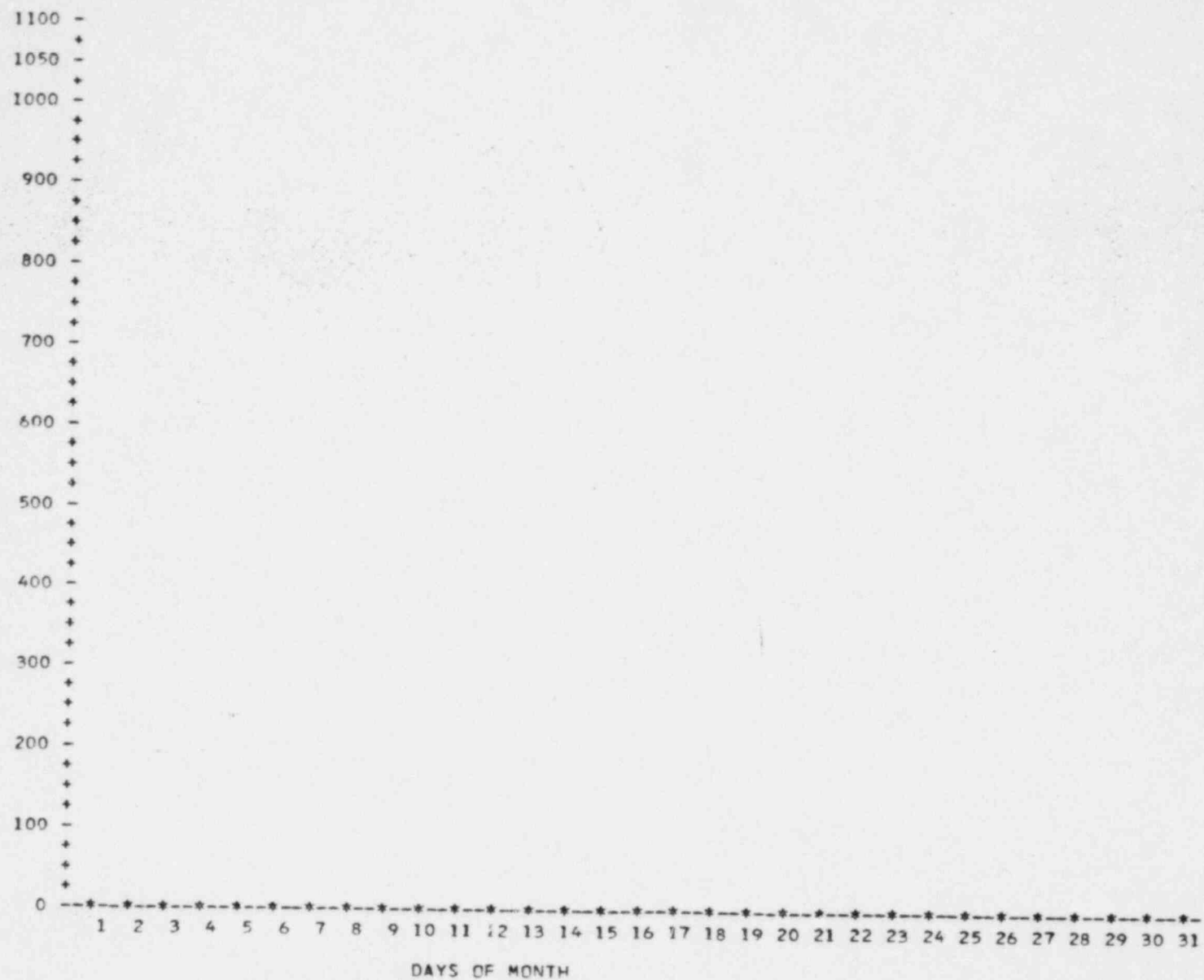
COMPANY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN  
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MONTH       JULY 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	31	0
16	0		

A RANGE DAILY POWER LEVEL  
(MWE-NET)

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 277

UNIT NAME PEACH BOTTOM UNIT 2

DATE AUGUST 12, 1981

REPORT MONTH JULY, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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

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
21	810701	F	00.0	A	4	2-31-35-1-P	XX	XXXXXX	LOAD REDUCTION DUE TO RECOMBINER COMPRESSOR TRIP ON HIGH HYDROGEN. CONTINUING PROBLEM FROM JUNE DUE TO LUBE OIL ENTERING THE CONDENSER FROM THE '2A' REACTOR FEED PUMP.
22	810717	S	00.0	B	4	NA	HC	HTEXCH	LOAD DROPPED FOR REPAIR OF 'A-1' AND 'A-2' CONDENSER WATERBOX LEAKS.
23	810725	S	00.0	B	4	NA	CH	TURBIN	LOAD DROPPED TO REMOVE '28' REACTOR FEED PUMP TURBINE FROM SERVICE TO GREASE COUPLING BECAUSE VIBRATION WAS ABOVE NORMAL. '2A' REACTOR FEED PUMP TURBINE WAS PREVIOUSLY OUT OF SERVICE DUE TO EXCESSIVE LEAKAGE.

(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 - 278

UNIT NAME PEACH BOTTOM UNIT 3

DATE AUGUST 12, 1981

REPORT MONTH JULY, 1981

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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GENERATION DIVISION-NUCLEAR  
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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	810701	S	744.0 ----- 744.0	C	1	NA	RC	FUELXX	CONTINUING REFUELING OUTAGE.

(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



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

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:

September 7, 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, i.e., 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 % 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

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

UNIT 2 OPERATIONS

The unit began the period at 53.8% power. On July 1, a main steam line high radiation alarm occurred followed shortly thereafter by a recombiner mechanical compressor trip on high hydrogen. Power was reduced to approximately 30% to reduce the main steam line radiation level and to maintain condenser vacuum. Within 15 minutes, the recombiner was back in service and power was then increased at 20 MWe/hr. On July 6, the "A" Reactor Feed Pump had to be removed from service due to excessive seal water leakage into the lube oil reservoir. The load had to be dropped slightly since only two Reactor Feed Pumps remained in operation. On July 11, the E-4 Diesel Generator was returned to service following its annual maintenance outage. Load was reduced to 65% for repairs to the A-1 and A-2 water boxes on July 17. On July 18, power ascension at 10 MWe/hr began. On both July 19, and July 21, load reductions of 50 MWe were made for 2 hours due to high river differential temperature. Load was reduced to 36% on July 25, to allow disassembly, inspection and regreasing of the "B" Reactor Feed Pump shaft coupling due to increasing vibration. The unit was returned to power and ended the month at 94% power.

UNIT 3 OPERATIONS

The unit remains shutdown to accommodate refueling, modifications and maintenance work. Suppression Pool work is complete and the Suppression Pool has been refilled. Feedwater nozzle replacement, Core Spray piping replacement, Jet pump beam replacement (1), and Recirc Discharge valve bypass removal are complete. The Scram Discharge Volume modifications and Reactor Water Cleanup piping replacements are in progress. The fuel is presently being reloaded into the reactor. The Limerick Recirc Pump Motor is being modified for installation on the 3B Recirc Pump.