

PHILADELPHIA ELECTRIC COMPANY

3927014870

LIMERICK GENERATING STATION

P. O. BOX 2300

POTTSTOWN, PA 19464-0920

(215) 327-1200, EXT. 3000

April 10, 1992

GRAHAM M. LEITCH
VICE PRESIDENT
LIMERICK GENERATING STATION

Docket Nos. 50-352
50-353
License Nos. NPF-39
NPF-85

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Subject: Limerick Generating Station Monthly Operating Report For
Units 1 and 2

Enclosed are the monthly operating reports for Limerick Units
1 and 2 for the month of March, 1992 forwarded pursuant to
Technical Specification 6.9.1.6.

Very truly yours,

KWM/dms

Enclosure

cc: T. T. Martin, Administrator, Region I, USNRC
T. J. Kenny, USNRC Senior Resident Inspector

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Docket No. #50-352
Attachment to Monthly
Operating Report for
February 1992

LIMERICK GENERATING STATION
UNIT 1
MARCH 1 THROUGH MARCH 31, 1992

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 1 began the month of March at 100% of rated thermal power. On Monday, March 2, reactor power was briefly reduced to 95% to facilitate a control rod pattern adjustment. On Monday, March 9, power began to decrease from 100% due to fuel depletion. On Friday, March 13, reactor power was reduced from 98.4% to 95% to allow the sixth feedwater heaters to be removed from service. Reactor power was restored to 100% of rated thermal power with reduced feedwater heating the same day. On Friday, March 20 at 0825 hours power reduction began for entry into the the Unit 1 fourth refueling outage. At 1410 hours on March 20 the reactor mode switch was placed in the Shutdown position and the unit scrambled from 20% of rated thermal power. At 0845 hours on March 21 the unit entered OPCON 4 (Cold Shutdown) when reactor water coolant temperature was reduced to less than 200 degrees Fahrenheit. OPCON 5 (Refueling) was entered at 1500 hours on March 24 when the reactor vessel head detensioning commenced. On March 25 OPCON 5* (Refueling activities with the potential for draining the reactor vessel) was entered following the establishing of Refuel Floor Secondary Containment. OPCON5* (Refueling with core alterations permitted) was entered and core offload began at 2029 hours on March 31.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

There were no challenges to the Main Steam Safety Relief Valves during the month of March.

oprfgexl

AVERAGE DAILY UNIT POWER LEVEL

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DOCKET NO. 50 - 352

UNIT LIMERICK UNIT 1

DATE APRIL 10, 1992

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH MARCH 1992

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1058	17	1044
2	1038	18	1042
3	1047	19	1038
4	1047	20	466
5	1052	21	0
6	1057	22	0
7	1042	23	0
8	1046	24	0
9	1058	25	0
10	1022	26	0
11	1044	27	0
12	1044	28	0
13	1042	29	0
14	1039	30	0
15	1040	31	0
16	1044		

OPERATING DATA REPORT

3927014870

DOCKET NO. 50 - 352

DATE APRIL 10, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1700 EXTENSION 3320

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 1
 2. REPORTING PERIOD: MARCH, 1992
 3. LICENSED THERMAL POWER(MWT): 3293
 4. NAMEPLATE RATING (GROSS MWE): 1138
 5. DESIGN ELECTRICAL RATING (NET MWE): 1055
 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1092
 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES: REACTOR WAS MANUALLY
 SCRAMMED FROM 20% POWER
 TO BEGIN THE FOURTH
 REFUELING OUTAGE.

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	2,184	54,024
12. NUMBER OF HOURS REACTOR WAS CRITICAL	470.2	1,910.2	43,219.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	470.2	1,903.9	42,345.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,538,402	6,163,245	128,152,161
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	504,500	2,033,300	41,534,240
18. NET ELECTRICAL ENERGY GENERATED (MWH)	486,475	1,961,048	39,772,504

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DATE APRIL 10, 1992

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	63.2	87.2	78.4
20. UNIT AVAILABILITY FACTOR	63.2	87.2	78.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	62.0	85.1	69.8
22. UNIT CAPACITY FACTOR (USING DER NET)	62.0	85.1	69.8
23. UNIT FORCED OUTAGE RATE	36.8	12.8	4.9

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
 4TH REFUELING OUTAGE: 03/21/92; 70 DAYS

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	12/19/84	12/22/84
INITIAL ELECTRICITY	MID APRIL 85	4/13/85
COMMERCIAL OPERATION	1ST QTR 86	2/01/86

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 59 - 352

3927014870

UNIT NAME LIMERICK UNIT 1

DATE APRIL 10, 1992

REPORT MONTH MARCH, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1200 EXTENSION 3320

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
10	920302	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 5% FOR CONTROL ROD PATTERN ADJUSTMENT.
11	920309	S	030.0	H	4	N/A	ZZ	XXXXXX	LOAD WAS DRIFTING LOWER DUE TO FJEL DEPLETION.
12	920313	S	000.0	H	4	N/A	CH	HTEXCH	LOAD WAS REDUCED 5% TO REMOVE FEEDWATER HEATERS FROM SERVICE TO OPERATE WITH REDUCED FEEDWATER HEATING.
13	920320	S	273.8	C	2	N/A	ZZ	ZZZZZZ	REACTOR WAS MANUALLY SCRAMMED FROM 20% POWER TO BEGIN THE FOURTH REFUELING OUTAGE.
			273.8						

(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

Docket No. #50-353
Attachment to Monthly
Operating Report for
February 1992

LIMERICK GENERATING STATION
UNIT 2
MARCH 1 THROUGH MARCH 31, 1992

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 2 began the month of March at a nominal 100% of rated thermal power. On Friday, March 13, reactor power was briefly reduced to 92% to support a control rod pattern adjustment and Main Turbine Control valve testing. Unit 2 ended this operating period at a nominal 100% of rated thermal power.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

There were no challenges to the Main Steam Safety Relief Valves during the month of February.

AVERAGE DAILY UNIT POWER LEVEL

3927014870

DOCKET NO. 50 - 353

UNIT LIMERICK UNIT 2

DATE APRIL 10, 1992

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH MARCH 1992

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1067	17	1065
2	1057	18	1066
3	1063	19	1064
4	1058	20	1062
5	1064	21	1061
6	1072	22	1062
7	1057	23	1074
8	1063	24	1052
9	1074	25	1060
10	1044	26	1058
11	1066	27	1059
12	1068	28	1060
13	1067	29	1059
14	1058	30	1062
15	1066	31	1063
16	1065		

OPERATING DATA REPORT

3927014870

DOCKET NO. 50 - 353

DATE APRIL 10, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1200 EXTENSION 3320

OPERATING STATUS

- 1. UNIT NAME: LIMERICK UNIT 2
- 2. REPORTING PERIOD: MARCH, 1992
- 3. LICENSED THERMAL POWER (MWT): 3293
- 4. NAMEPLATE RATING (GROSS MWE): 1138
- 5. DESIGN ELECTRICAL RATING (NET MWE): 1055
- 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1092
- 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES: THERE WERE NO LOAD
 REDUCTIONS GREATER THAN
 20% DURING THE MONTH.

- 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	2,184	19,536
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2,184.0	16,772.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	2,184.0	16,283.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,448,444	7,135,618	52,407,014
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	820,680	2,390,320	17,321,956
18. NET ELECTRICAL ENERGY GENERATED (MWH)	790,449	2,306,864	16,680,729

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DATE APRIL 10, 1992

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	100.0	83.3
20. UNIT AVAILABILITY FACTOR	100.0	100.0	83.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	100.7	100.1	80.9
22. UNIT CAPACITY FACTOR (USING DER NET)	100.7	100.1	80.9
23. UNIT FORCED OUTAGE RATE	0.0	0.0	5.1

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	08/12/89	08/12/89
INITIAL ELECTRICITY	09/01/89	09/01/89
COMMERCIAL OPERATION	02/01/90	01/08/90

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 353

UNIT NAME LIMCKICK UNIT 2

DATE APRIL 10, 1992

REPORT MONTH MARCH, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL WECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1200 EXTENSION 3320

NO.	DATE	TYPE (1)	DURATION (HOURS)	REASON (2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPT. #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
B	920313	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 8% FOR CONTROL ROD PATTERN 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 3 - INSTRUCTIONS FOR PREPARATION OF DATA ENTRY SHEETS FOR LICENSEE EVENT REPORT (LER) FILE (NUREG-0161)

(5)

EXHIBIT 1 - SAME SOURCE