

## PHILADELPHIA ELECTRIC COMPANY

LIMERICK GENERATING STATION

P. O. BOX 2300

POTTS TOWN, PA 19464-0920

(215) 327-1200, EXT. 3000

November 8, 1991


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 October, 1991 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

*Handwritten initials/signature*

3917120660

Docket No. #50-352  
Attachment to Monthly  
Operating Report for  
October 1991

LIMERICK GENERATING STATION  
UNIT 1  
OCTOBER 1 THROUGH OCTOBER 31, 1991

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 1 began the month of October at a nominal 100% of rated thermal power. On Friday, October 18, at 0030 hours, reactor power was reduced to 90.7% of rated to facilitate main turbine valve testing and a control rod pattern adjustment. Reactor power was restored to a nominal 100% of rated at 0949 hours on the same day. Unit 1 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 October.

# AVERAGE DAILY UNIT POWER LEVEL

3917120660

DOCKET NO. 50 - 352

UNIT LIMERICK UNIT 1

DATE NOVEMBER 1, 1991

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK

REPORTS SUPERVISOR

BUSINESS UNIT

LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH OCTOBER 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1043	17	1051
2	1039	18	1018
3	1036	19	1058
4	1037	20	1043
5	1029	21	1059
6	1050	22	1043
7	1053	23	1061
8	1050	24	1032
9	1047	25	1042
10	1046	26	1046
11	1047	27	1046
12	1051	28	1043
13	1050	29	1053
14	1053	30	1051
15	1086	31	1047
16	1007		

# OPERATING DATA REPORT

3917120660

DOCKET NO. 50 - 352

DATE NOVEMBER 1, 1991

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 1
2. REPORTING PERIOD: OCTOBER, 1991
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	VR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	745	7,296	50,376
12. NUMBER OF HOURS REACTOR WAS CRITICAL	745.0	6,997.5	40,129.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	745.0	6,897.0	39,294.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,443,044	22,137,289	118,219,421
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	807,580	7,209,220	36,255,120
18. NET ELECTRICAL ENERGY GENERATED (MWH)	779,147	6,934,654	35,612,261

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DATE NOVEMBER 1, 1991

	THIS MONTH	VR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	94.5	78.0
20. UNIT AVAILABILITY FACTOR	100.0	94.5	78.0
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.1	90.1	68.9
22. UNIT CAPACITY FACTOR (USING DER NET)	99.1	90.1	68.7
23. UNIT FORCED OUTAGE RATE	0.0	5.5	3.9

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):  
 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. 50 - 352

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UNIT NAME LIMERICK UNIT 1

DATE NOVEMBER 1, 1991

REPORT MONTH OCTOBER, 1991

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) (2)	REASON (3)	METHOD OF SHUTTING DOWN REACTOR (4)	LICENSEE EVENT REPORT #	SYSTEM CODE (5)	COMPONENT CODE (6)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
25	911018	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 9% FOR CONTROL ROD PATTERN ADJUSTMENT AND MAIN TURBINE CONTROL VALVE TESTING.

(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  
October 1991

LIMERICK GENERATING STATION  
UNIT 2  
OCTOBER 1 THROUGH OCTOBER 31, 1991

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 2 began the month of October at a nominal 100% of rated thermal power. On Saturday, October 5, at 0820 hours, reactor power was reduced to 37.1% of rated to facilitate reactor recirculation pump M/G set brush changeout and CRD scram time testing. Reactor power was restored to a nominal 100% of rated at 0640 hours on Sunday, October 6. 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 October.

# AVERAGE DAILY UNIT POWER LEVEL

3917120660

DOCKET NO. 50 - 353  
UNIT LIMERICK UNIT 2  
DATE NOVEMBER 1, 1991  
COMPANY PHILADELPHIA ELECTRIC COMPANY  
KARL MECK  
REPORT'S SUPERVISOR  
BUSINESS UNIT  
LIMERICK GENERATING STATION  
TELEPHONE (215) 327-1200 EXTENSION 3120

MONTH OCTOBER 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1060	17	1066
2	1057	18	1084
3	1056	19	1045
4	1056	20	1066
5	664	21	1075
6	1010	22	1059
7	1066	23	1078
8	1065	24	1045
9	1060	25	1060
10	1064	26	1064
11	1064	27	064
12	1068	28	1060
13	1060	29	1069
14	1068	30	1068
15	1060	31	1064
16	1065		



DOCKET NO. 50 - 353  
 DATE NOVEMBER 1, 1991  
 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. REPORTING PERIOD: OCTOBER, 1991  
 3. LICENSED THERMAL POWER (MW): 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 WAS ONE LOAD

REDUCTION TO 37% FOR RX  
 RECIRC MG SET MAINTENANCE

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	VR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	745	7,298	15,888
12. NUMBER OF HOURS REACTOR WAS CRITICAL	745.0	5,565.0	13,124.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	745.0	5,457.6	12,635.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,419,294	17,622,357	40,480,147
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	810,360	5,800,540	13,923,556
18. NET ELECTRICAL ENERGY GENERATED (MWH)	781,978	5,591,019	12,823,615

	DATE NOVEMBER 1, 1991		
	THIS MONTH	VR-TC-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	72.8	79.5
20. UNIT AVAILABILITY FACTOR	100.0	74.8	79.5
21. UNIT CAPACITY FACTOR (USING MOC NET)	99.5	72.6	76.5
22. UNIT CAPACITY FACTOR (USING D.R. NET)	99.5	72.6	76.5
23. UNIT FORCED OUTAGE RATE	0.0	0.7	6.5
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATE 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

## UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 353

3917120660

UNIT NAME LIMERICK UNIT 2

DATE NOVEMBER 1, 1991

REPORT MONTH OCTOBER, 1991

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) (2)	REASON (3)	METHOD OF SHUTTING DOWN REACTOR (4)	LICENSEE EVENT REPORT #	SYSTEM CODE (5)	COMPONENT CODE (6)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
30	911005	S	000.0	B	4	N/A	CB	MOTORX	LOAD WAS REDUCED 63% TO PERFORM MAINTENANCE ON THE REACTOR RECIRCULATION MOTOR GENERATOR SETS.

(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