

3924042850

PHILADELPHIA ELECTRIC COMPANY

LIMERICK GENERATING STATION

P. O. BOX 2300

POTTSTOWN, PA 19464-0920

(215) 327-1200, EXT. 3000

June 10, 1992

GRAHAM M. LEITCH  
VICE PRESIDENT  
LIMERICK GENERATING STATION

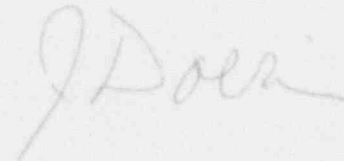
Docket Nos. 50-352  
50-353  
License Nos. NPF-39  
NPF-85

Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

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 May, 1992 forwarded pursuant to Technical  
Specification 6.9.1.6.

Very truly yours,

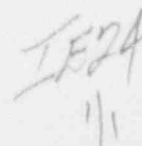


GSF

Enclosures

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

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PDR ADOCK 05000352  
R PDR



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

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

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 1 began the month, in OPCON 5, in the midst of the Fourth Refuel Outage with core reload in progress. Core reload was completed on May 8 and the moisture separator was installed on May 9. Unit 1 entered OPCON 4 (Cold Shutdown) on May 19 when vessel head tensioning was completed. Operations Hydro testing was completed on May 30. Unit 1 ended this reporting period in day 72 of the Refueling Outage.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

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

oprtgex1

AVERAGE DAILY UNIT POWER LEVEL

3924042850

DOCKET NO. 50 - 352

UNIT LIMERICK UNIT 1

DATE JUNE 8, 1992

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK  
 REPORTS SUPERVISOR  
 BUSINESS UNIT  
 LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH MAY 1992

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		

## OPERATING DATA REPORT

DOCKET NO. 50 - 352

DATE JUNE 8, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK  
REPORTS SUPERVISOR  
BUSINESS UNITLIMERICK GENERATING STATION  
TELEPHONE (215) 327-1200 EXTENSION 8320

## OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 1

2. REPORTING PERIOD: MAY, 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: THE UNIT WAS IN A REFUEL  
OUTAGE THE ENTIRE PERIOD.

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	3,647	55,487
12. NUMBER OF HOURS REACTOR WAS CRITICAL	0	1,910.2	43,219.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	0.0	1,903.9	42,345.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	0	6,163,245	128,152,161
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	0	2,033,300	41,534,240
18. NET ELECTRICAL ENERGY GENERATED (MWH)	* -3,884	1,956,286	39,767,742

DATE JUNE 8, 1992			
	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	0.0	52.2	76.3
20. UNIT AVAILABILITY FACTOR	0.0	52.2	76.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	0.0	50.9	67.9
22. UNIT CAPACITY FACTOR (USING DEP NET)	0.0	50.9	67.9
23. UNIT FORCED OUTAGE RATE	0.0	0.3	4.3
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	

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UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 352

UNIT NAME LIMERICK UNIT 1

DATE JUNE 8, 1992

REPORT MONTH MAY, 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
13	920501	S	744.0	C	2	N/A	ZZ	ZZZZZZ	THE UNIT REMAINED IN THE FOURTH REFUELING OUTAGE THE ENTIRE PERIOD.

(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-D161)

(5)

EXHIBIT I - SAME SOURCE

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

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

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 2 began the month of May at 98% of rated thermal power. On Saturday, May 2, reactor power was reduced to 45% to support a Motor-Generator (M-G) set brush changeout. Reactor power was further reduced to 23% to support main turbine vacuum switch repair. On Sunday May 3, reactor power was returned to 100% of rated thermal power. On Monday May 4, reactor power was briefly reduced to 92% of rated thermal power to set the final control rod pattern following the replacement of the M-G Set brushes. On Thursday, May 7, during a restart of the Unit 2 Reactor Enclosure HVAC, the '2A' Recirculation pump speed increased causing Reactor power to increase to 101%. The '2B' Recirculation pump speed was reduced and the final reactor power was 96%. Reactor power was restored to 100% early on Friday May 8. Later on May 8 reactor power was reduced to 75% in preparation for removing the '2A' condensate pump from service due to high vibration levels on the pump. On Saturday, May 9, Unit 2 reactor power was reduced to 65% to increase the margin of safety in case of another condensate pump failure. On Tuesday, May 12, reactor power was reduced by 50 Mwe for a control rod pattern adjustment and was returned to 65% power later that day. Unit 2 was returned to a nominal 100% of rated thermal power on May 13. On May 14 reactor power was briefly reduced to 98% and on May 26 reactor power was briefly reduced to 90% to perform control rod pattern adjustments. Unit 2 ended this operating period at 100% of rated thermal power.

Operational events that occurred during the month of May include:

During startup of the Unit 2 Reactor Enclosure HVAC on May 7, the '2A' reactor recirculation pump speed increased due to an unexpected increase in the speed demand signal. Control Room personnel immediately applied the scoop tube brake to terminate the recirculation pump speed increase. During this transient reactor power peaked at 101% of rated thermal power. The '2B' recirculation pump speed was immediately reduced and power was stabilized at 96% of rated. The '2A' recirculation pump speed by manual scoop tube operation until the two recirculation pump speeds were matched.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

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

oprtegex2



3924042850

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 353  
 UNIT LIMERICK UNIT 2  
 DATE JUNE 8, 1992  
 COMPANY PHILADELPHIA ELECTRIC COMPANY  
 KARL MECK  
 REPORTS SUPERVISOR  
 BUSINESS UNIT  
 LIMERICK GENERATING STATION  
 TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH	MAY 1992	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
	1	1034	17	1035	
	2	403	18	1059	
	3	972	19	1055	
	4	1043	20	1054	
	5	1061	21	1052	
	6	1061	22	1046	
	7	1063	23	1048	
	8	1029	24	1040	
	9	681	25	1065	
	10	625	26	1055	
	11	631	27	1060	
	12	625	28	1058	
	13	770	29	1054	
	14	1041	30	1058	
	15	1052	31	1045	
	16	1062			

OPERATING DATA REPORT

3924042850

DOCKET NO. 50 - 353

DATE JUNE 8, 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: MAY, 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 TWO 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	3,647	20,999
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	3,647.0	18,235.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	3,647.0	17,746.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,264,122	11,765,518	57,036,914
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	747,890	3,926,970	18,858,606
18. NET ELECTRICAL ENERGY GENERATED (MWH)	718,593	3,783,869	18,157,734

DATE JUNE 8, 1992

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	100.0	84.5
20. UNIT AVAILABILITY FACTOR	100.0	100.0	84.5
21. UNIT CAPACITY FACTOR (USING MDC NET)	91.5	98.3	82.0
22. UNIT CAPACITY FACTOR (USING DER NET)	91.5	98.3	82.0
23. UNIT FORCED OUTAGE RATE	0.0	0.0	4.7

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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 353

3924042850

UNIT NAME LIMERICK UNIT 2

DATE JUNE 8, 1992

REPORT MONTH MAY, 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
12	920502	S	000.0	B	4	N/A	CB	MOTORX	LOAD WAS REDUCED TO 45% TO SUPPORT M-G SET BRUSH CHANGEOUT.
13	920502	S	000.0	B	4	N/A	IF	INSTRU	LOAD WAS FURTHER REDUCED TO 23% TO REPAIR THE MAIN TURBINE VACUUM TRIP SWITCH.
14	920504	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 8% TO SET THE FINAL ROD PATTERN FOLLOWING THE M-G SET BRUSH CHANGEOUT.
15	920507	F	000.0	A	4	N/A	HF	PUMPXX	POWER WAS REDUCED 4% DUE TO '2A' RECIRC PUMP SPEED PROBLEMS.
16	920508	F	000.0	A	4	N/A	HH	PUMPXX	LOAD WAS REDUCED TO 75% TO REMOVE THE '2A' CONDENSATE PUMP FROM SERVICE DUE TO HIGH VIBRATION LEVELS ON THE PUMP.
17	920509	F	000.0	A	4	N/A	HH	PUMPXX	LOAD WAS FURTHER REDUCED TO 65% TO INCREASE MARGIN OF SAFETY IN CASE OF ANOTHER CONDENSATE PUMP FAILURE.
18	920512	S	000.1	B	4	N/A	RB	CONROD	LOAD WAS FURTHER REDUCED 50 MWE FOR

(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 - 353

UNIT NAME LIMERICK UNIT 2

DATE JUNE 8, 1992

REPORT MONTH MAY, 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
19	920514	S	000.0	B	4	N/A	RB	CONROD	CONTROL ROD PATTERN ADJUSTMENT. LOAD WAS REDUCED 2% FOR CONTROL ROD PATTERN ADJUSTMENT.
20	920526	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 10% FOR CONTROL ROD PATTERN ADJUSTMENT.

(1)

- F - FORCED
- S - SCHEDULED

(2)

- 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 6 - INSTRUCTIONS FOR PREPARATION OF DATA ENTRY SHEETS FOR LICENSEE EVENT REPORT (LER) FILE (NUREG-0161)

(5)

- EXHIBIT 1 - SAME SOURCE