



PECO ENERGY

PECO Energy Company  
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T.S.6.9.1.6

March 13, 1996

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 February 1996 forwarded  
pursuant to Technical Specification 6.9.1.6.

Very truly yours,

Michael P. Gallagher  
Director - Site Engineering

drh

Enclosures

cc: T. T. Martin, Administrator, Region I, USNRC  
N. S. Perry, USNRC Senior Resident Inspector LGS  
W. G. MacFarland, Vice President, LGS

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Limerick Generating Station  
Unit 1  
February 1 through February 29, 1996

I. Narrative Summary of Operating Experiences

Unit 1 began the month of February at 87% of rated thermal power (RTP) in end of cycle coastdown.

On February 2, 1996 at 0200 hours, power reduction commenced in preparation to shutdown for Unit 1 sixth refueling outage (1R06). Power was reduced to 22% RTP and the main turbine was removed from service at 0900 hours. The planned shutdown was postponed to support power generation requirements and the main turbine was returned to service at 1625 hours. On February 2, 1996 at 2253 hours, power ascension began. The unit was restored to 80% RTP on February 4, 1996 at 0251 hours.

On February 5, 1996 at 1500 hours, power reduction commenced in preparation to shutdown for 1R06. Power was reduced to 22.5% RTP and the main turbine was removed from service at 2200 hours. The unit was manually scrammed at 2300 hours to start 1R06.

On February 6, 1996 at 0953 hours, the unit entered operational condition 4, Cold Shutdown, and at 1531 hours, the mode switch was placed in Refuel.

On February 23, 1996 at 1534 hours, operational condition 4 was entered when the reactor pressure vessel head was fully tensioned.

On February 28, 1996 at 0221 hours, the reactor mode switch was placed in Startup, control rod withdrawal commenced at 0855 hours and the reactor was critical at 1351 hours.

Unit 1 ended this operating period in operational condition 2 with startup in progress following 1R06 and reactor pressure at 960 psig.

II. Challenges to Main Steam Safety Relief Valves

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

DOCKET NO. 50 - 352  
UNIT LIMERICK UNIT 1  
DATE MARCH 13, 1996  
COMPANY PECO ENERGY COMPANY  
DAVID R. HENRICKS  
REPORTS ENGINEER  
SITE ENGINEERING  
LIMERICK GENERATING STATION  
TELEPHONE (610) 718-3772

MONTH FEBRUARY, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

1	865
2	212
3	275
4	843
5	615
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0

# OPERATING DATA REPORT

DOCKET NO. 50 - 352  
 DATE MARCH 13, 1996  
 COMPLETED BY PECO ENERGY COMPANY  
 DAVID R. HENRICKS  
 REPORTS ENGINEER  
 SITE ENGINEERING  
 LIMERICK GENERATING STATION  
 TELEPHONE (610) 718-3772

## OPERATING STATUS

1. UNIT NAME: \_\_\_\_\_ LIMERICK UNIT 1  
 2. REPORTING PERIOD: \_\_\_\_\_ FEBRUARY, 1996  
 3. LICENSED THERMAL POWER(MWT): \_\_\_\_\_ 3293  
 4. NAMEPLATE RATING (GROSS MWE): \_\_\_\_\_ 1092  
 5. DESIGN ELECTRICAL RATING (NET MWE): \_\_\_\_\_ 1055  
 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): \_\_\_\_\_ 1092  
 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): \_\_\_\_\_ 1055  
 8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7 ) SINCE LAST REPORT, GIVE REASONS:

NOTES: THERE WERE TWO LOAD DROPS  
 GREATER THAN 20% THIS MONTH  
 ASSOCIATED WITH COASTDOWN FOR  
 THE 1R06 REFUELING OUTAGE  
 AND EXTENDED OPERATION TO  
 SUPPORT PJM POWER SHORTAGE.

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	696	1,440	88,344
12. NUMBER OF HOURS REACTOR WAS CRITICAL	153.1	897.2	73,120.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	110.6	854.6	71,854.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	219,806	2,401,949	222,542,844
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	70,300	780,500	72,411,980
18. NET ELECTRICAL ENERGY GENERATED (MWH)	64,134	746,141	69,537,613

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 352  
 DATE MARCH 13, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	15.9 %	59.3 %	81.3 %
20. UNIT AVAILABILITY FACTOR	15.9 %	59.3 %	81.3 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	8.7 %	49.1 %	74.6 %
22. UNIT CAPACITY FACTOR (USING DER NET)	8.7 %	49.1 %	74.6 %
23. UNIT FORCED OUTAGE RATE	.0 %	.0 %	4.3 %
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): MAINTENANCE OUTAGE IS SCHEDULED FOR 3/24/96 LASTING 5 DAYS.			
25. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	3/1/96		
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATIONS):	FORECAST	ACHIEVED	
INITIAL CRITICALITY	12/19/84	12/22/84	
INITIAL ELECTRICITY	MID APRIL 85	04/13/85	
COMMERCIAL OPERATION	1ST QTR 86	02/01/86	

**UNIT SHUTDOWNS AND POWER REDUCTIONS**

DOCKET NO. 50 - 352  
 UNIT NAME LIMERICK UNIT 1  
 DATE MARCH 13, 1996  
 COMPLETED BY PECO ENERGY COMPANY  
 DAVID R. HENRICKS  
 REPORTS ENGINEER  
 SITE ENGINEERING  
 LIMERICK GENERATING STATION  
 TELEPHONE (610) 718-3772

REPORT MONTH FEBRUARY, 1996

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	
95	960202	S	0.0	C	4	N/A	RC	FUELXX	REACTOR POWER WAS REDUCED TO 22% DUE TO COASTDOWN FOR 1R06 REFUELING OUTAGE.	
96	960202	S	7.4	C	2	N/A	RC	FUELXX	REACTOR WAS CRITICAL , BUT GENERATOR WAS TAKEN OFF GRID FOR 1R06 REFUELING OUTAGE. GENERATOR WAS THEN PLACE BACK ON GRID TO SUPPORT PJM POWER SHORTAGE.	
97	960205	S	578.0	C	2	N/A	RC	FUELXX	REACTOR WAS SHUTDOWN FOR 1R06 REFUELING OUTAGE.	
TOTAL HOURS			585.4							

(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

Limerick Generating Station  
Unit 2  
February 1 through February 29, 1996

I. Narrative Summary of Operating Experiences

Unit 2 began the month of February at a nominal 100% of rated thermal power (RTP).

On February 9, 1996 at 2229 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2330 hours.

On February 10, 1996 at 2214 hours, power was reduced to 88% RTP for main turbine valve and RPS testing. Power was restored to 100% RTP on February 11, 1996 at 0016 hours.

On February 17, 1996 at 0145 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0245 hours.

On February 23, 1996 at 2330 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP on February 24, 1996 at 0035 hours.

Unit 2 ended this operating period at 100% of RTP.

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 POWER LEVEL

DOCKET NO. 50 - 353  
UNIT LIMERICK UNIT 2  
DATE MARCH 13, 1996  
COMPANY PECO ENERGY COMPANY  
DAVID R. HENRICKS  
REPORTS ENGINEER  
SITE ENGINEERING  
LIMERICK GENERATING STATION  
TELEPHONE (610) 718-3772

MONTH FEBRUARY, 1996

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

1	1140
2	1127
3	1128
4	1136
5	1129
6	1140
7	1133
8	1133
9	1132
10	1120
11	1116
12	1148
13	1132
14	1133
15	1133
16	1138

DAY AVERAGE DAILY POWER LEVEL  
(MWE-NET)

17	1135
18	1139
19	1134
20	1130
21	1130
22	1125
23	1124
24	1122
25	1126
26	1133
27	1120
28	1126
29	1129



# OPERATING DATA REPORT

DOCKET NO 50 - 353  
 DATE MARCH 13, 1996  
 COMPLETED BY PECO ENERGY COMPANY  
 DAVID R. HENRICKS  
 REPORTS ENGINEER  
 SITE ENGINEERING  
 LIMERICK GENERATING STATION  
 TELEPHONE (610) 718-3772

## OPERATING STATUS

1. UNIT NAME: \_\_\_\_\_ LIMERICK UNIT 2
2. REPORTING PERIOD: \_\_\_\_\_ FEBRUARY, 1996
3. LICENSED THERMAL POWER(MWT): \_\_\_\_\_ 3453
4. NAMEPLATE RATING (GROSS MWE): \_\_\_\_\_ 1163
5. DESIGN ELECTRICAL RATING (NET MWE): \_\_\_\_\_ 1115
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): \_\_\_\_\_ 1155
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): \_\_\_\_\_ 1115
8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 3 THROUGH 7 ) SINCE LAST REPORT, GIVE REASONS:

NOTES: THERE WERE NO LOAD DROP  
GREATER THAN 20% THIS MONTH.

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	696	1,440	53,856
12. NUMBER OF HOURS REACTOR WAS CRITICAL	696.0	1,440.0	48,972.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	696.0	1,440.0	48,031.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,404,137	4,899,763	153,245,496
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	813,800	1,859,600	50,737,480
18. NET ELECTRICAL ENERGY GENERATED (MWH)	787,035	1,807,878	48,911,509

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 353

DATE MARCH 13, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0 %	100.0 %	89.2 %
20. UNIT AVAILABILITY FACTOR	100.0 %	100.0 %	89.2 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	101.4 %	100.1 %	85.2 %
22. UNIT CAPACITY FACTOR (USING DER NET)	101.4 %	100.1 %	85.2 %
23. UNIT FORCED OUTAGE RATE	.0 %	.0 %	3.2 %
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): EQUIPMENT RELIABILITY OUTAGE SCHEDULED FOR 5/12/96 LASTING 5 DAYS.			
25. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:			
26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATIONS):	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  
 UNIT NAME LIMERICK UNIT 2  
 DATE MARCH 13, 1996  
 COMPLETED BY PECO ENERGY COMPANY  
 DAVID R. HENRICKS  
 REPORTS ENGINEER  
 SITE ENGINEERING  
 LIMERICK GENERATING STATION  
 TELEPHONE (610) 718-3772

REPORT MONTH FEBRUARY, 1996

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	
93	960209	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.	
94	960210	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 88% DUE TO MAIN TURBINE VALVE AND RPS TESTING.	
95	960217	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.	
96	960223	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.	
TOTAL HOURS			0.0							

(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)  
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 EVENT REPORT (LER)  
 FILE (NUREG-0161)

(5)  
 EXHIBIT I - SAME SOURCE