



PECO NUCLEAR

A Unit of PECO Energy

PECO Energy Company
PO Box 2300
Sanatoga, PA 19464-0920

T.S.6.9.1.6

May 12, 1997

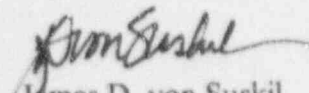
Docket Nos. 50-352
50-353
License Nos. NPF-39
NPF-85

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 April 1997 forwarded pursuant to Technical Specification 6.9.1.6.

Very truly yours,


James D. von Suskil
Director - Site Engineering

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Enclosures

cc: H. J. Miller, 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
April 1 through April 30, 1997

I. Narrative Summary of Operating Experiences

Unit 1 began the month of April 1997 at a nominal 100% of rated thermal power (RTP).

On April 4, 1997 at 2032 hours, power was reduced to 98% of RTP for main turbine valve testing. Power was restored to 100% RTP at 2155 hours.

On April 6, 1997 at 2034 hours, power was reduced to 98% of RTP to reduce main turbine condenser back pressure. Power was restored to 100% RTP on April 7, 1997 at 0330 hours.

On April 11, 1997 at 1010 hours, power was reduced to 98% of RTP for main turbine valve testing. Power was restored to 100% RTP at 1103 hours.

On April 11, 1997 at 1205 hours, power was reduced to 70% of RTP to prepare for main turbine generator maintenance.

On April 11, 1997 at 2211 hours, power was further reduced to 23% of RTP for main turbine generator maintenance. Power was restored to 100% RTP on April 18, 1997 at 1402 hours.

On April 26, 1997 at 0830 hours, power was reduced to 98% of RTP for main turbine valve testing. Power was further reduced to 80% of RTP at 0859 due to power spiking during the turbine valve testing. Power was restored to 100% RTP on April 27, 1997 at 0145 hours.

On April 29, 1997 at 1952 hours, power was reduced to 98% of RTP to prepare for a reactor water clean up system outage. Power was restored to 100% RTP on April 30, 1997 at 2155 hours.

Unit 1 ended this month operating at 100% RTP.

II. Challenges to Main Steam Safety Relief Valves

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

AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 352
 UNIT LIMERICK UNIT 1
 DATE MAY 8, 1997
 COMPANY PECO ENERGY COMPANY
 BRUCE E. CANFIELD
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3794

MONTH APRIL, 1997

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	1100
2	1100
3	1096
4	1092
5	1099
6	1096
7	1091
8	1104
9	1121
10	1116
11	770
12	0
13	0
14	0
15	263
16	640

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	748
18	1055
19	1102
20	1106
21	1106
22	1098
23	1102
24	1097
25	1093
26	959
27	1091
28	1093
29	1092
30	1096

OPERATING DATA REPORT

DOCKET NO. 50 - 352
 DATE MAY 8, 1997
 COMPLETED BY PECO ENERGY COMPANY
 BRUCE E. CANFIELD
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 716-3794

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 1
 2. REPORTING PERIOD: APRIL, 1997
 3. LICENSED THERMAL POWER(MWT): 3458
 4. NAMEPLATE RATING (GROSS MWE): 1160
 5. DESIGN ELECTRICAL RATING (NET MWE): 1105
 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1145
 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1105

NOTES: THERE WAS 1 LOAD DROP GREATER
 THAN 20% THIS MONTH DUE TO
 MAIN TURB GEN MAINTENANCE.

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS 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	719	2,879	98,567
12. NUMBER OF HOURS REACTOR WAS CRITICAL	719.0	2,879.0	83,006.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	644.0	2,804.0	81,564.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,064,173	9,526,880	255,281,043
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	681,600	3,170,200	83,241,980
18. NET ELECTRICAL ENERGY GENERATED (MWH)	659,495	3,069,008	80,002,105

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 352
DATE MAY 8, 1997

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	89.6 %	97.4 %	82.7 %
20. UNIT AVAILABILITY FACTOR	89.6 %	97.4 %	82.7 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	83.0 %	96.5 %	76.5 %
22. UNIT CAPACITY FACTOR (USING DER NET)	83.0 %	96.5 %	76.5 %
23. UNIT FORCED OUTAGE RATE	.0 %	.0 %	4.1 %

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

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	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 MAY 8, 1997
COMPLETED BY PECO ENERGY COMPANY
BRUCE E. CANFIELD
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3794

REPORT MONTH APRIL, 1997

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
186	970404	S		B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
187	970406	S		B	4	N/A	HA	TURBIN	REACTOR POWER WAS REDUCED TO 98% TO REDUCE TURBINE BACK PRESSURE.
188	970411	S		B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
189	970411	S		B	4	N/A	HA	GENERA	REACTOR POWER WAS REDUCED TO 70% FOR TURBINE GENERATOR MAINTENANCE.
190	970412	S	75.0	B	4	N/A	HA	GENERA	REACTOR POWER WAS FURTHER REDUCED TO 23%. MAIN TURBINE WAS TAKEN OFF LINE FOR GENERATOR MAINTENANCE.
191	970426	S		B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 80% DUE TO MAIN TURBINE VALVE TESTING.
192	970429	S		B	4	N/A		VALVEX	REACTOR POWER WAS REDUCED TO 98% TO PREPARE FOR A REACTOR CLEANUP SYSTEM OUTAGE.
TOTAL HOURS			75.0						

(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)
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
April 1 through April 30, 1997

I. Narrative Summary of Operating Experiences

Unit 2 began the month of April 1997 at 22% rated thermal power (RTP) in power ascension from a main turbine generator outage

On April 7, 1997 power was restored to 100% RTP at 0644 hours.

On April 12, 1997 at 0244 hours, power was reduced to 98% of RTP for main turbine valve testing. Power was restored to 100% RTP on April 12, at 0316 hours.

On April 16, 1997 at 1925 hours, power was reduced to 85% of RTP for high main turbine generator bearing vibration.

On April 16, 1997 at 2010 hours, power was reduced to 60% of RTP for main turbine generator bearing vibration. Power was further reduced to 49% of RTP at 2052. Power was increased to 52% of RTP on April 17, at 1830 after the main turbine generator vibration had stabilized.

On April 17, 1997 at 0740 hours, power was slowly increased with additional monitoring of the main turbine generator being performed. On April 18 at 0630 power reached 71% of RTP. Power was restored to 100% of RTP on April 19, at 0636 hours.

On April 20, 1997 at 0812 hours, power was reduced to 90% of RTP for a control rod pattern adjustment. Power was restored to 100% RTP on April 20, at 0919 hours.

On April 24, 1997 at 0939 hours, power was reduced to 85% of RTP for main turbine generator bearing vibration. Power was further reduced to 70% of RTP at 1759 hours.

On April 28, 1997 at 1430 hours, power was increased to 85 % RTP.

On April 30, 1997 at 2030 hours, power was reduced to prepare for a main turbine generator outage. Power was reduced to 30% of RTP at 2326 hours.

Unit 2 ended this operating period at 30% 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 April.

AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 353
 UNIT LIMERICK UNIT 2
 DATE MAY 8, 1997
 COMPANY PECO ENERGY COMPANY
 BRUCE E. CANFIELD
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3794

MONTH APRIL, 1997

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	0
2	0
3	0
4	365
5	608
6	954
7	1093
8	1111
9	1135
10	1135
11	1132
12	1119
13	1115
14	1118
15	1122
16	1020

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	500
18	779
19	1096
20	1124
21	1123
22	1128
23	1130
24	982
25	776
26	785
27	790
28	844
29	959
30	892

OPERATING DATA REPORT

DOCKET NO. 50 - 353
 DATE MAY 8, 1997
 COMPLETED BY PECO ENERGY COMPANY
 BRUCE E. CANFIELD
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3794

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 2
2. REPORTING PERIOD: APRIL, 1997
3. LICENSED THERMAL POWER(MWT): 3458
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:
9. POWER LEVEL TO WHICH RESTRICTED, IF ANY (NET MWE):
10. REASONS FOR RESTRICTIONS, IF ANY:

NOTES: THERE WERE 3 LOAD DROPS
 GREATER THAN 20% THIS MONTH
 DUE TO TURB GEN ALTEREX
 BEARING VIBRATION.

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	719	2,879	64,079
12. NUMBER OF HOURS REACTOR WAS CRITICAL	719.0	2,238.8	58,266.0
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	646.0	2,093.6	57,032.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,933,826	6,174,420	182,599,164
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	643,800	2,044,300	60,434,580
18. NET ELECTRICAL ENERGY GENERATED (MWH)	620,580	1,967,800	58,272,531

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 353
DATE MAY 8, 1997

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	89.8 %	72.7 %	89.0 %
20. UNIT AVAILABILITY FACTOR	89.8 %	72.7 %	89.0 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	77.4 %	61.3 %	84.7 %
22. UNIT CAPACITY FACTOR (USING DER NET)	77.4 %	61.3 %	84.7 %
23. UNIT FORCED OUTAGE RATE	.0 %	.0 %	3.5 %
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): PLANNED MAINT OUTAGE, 5/01/97 SCHEDULED 5 DAY DURATION			
25. IF SHUTDOWN AT THE END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:	5/06/97		
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 MAY 8, 1997
COMPLETED BY PECO ENERGY COMPANY
BRUCE E. CANFIELD
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3794

REPORT MONTH APRIL, 1997

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
172	970401	S	73.0	B	4	N/A	HA	GENERA	REACTOR POWER HAD BEEN REDUCED TO 22% AND THE MAIN TURBINE WAS OFF LINE FOR GENERATOR ALTEREX REPAIR.
173	970412	S		B	3	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
174	970416	F		A	4	N/A	HA	GENERA	REACTOR POWER WAS REDUCED TO 49% DUE TO TURB GEN ALTEREX BEARING VIBRATION.
175	970420	S		H	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 90% FOR A CONTROL ROD PATTERN ADJUSTMENT.
176	970424	F		A	4	N/A	HA	GENERA	REACTOR POWER WAS REDUCED TO 30% DUE TO TURB GEN ALTEREX BEARING VIBRATION.
TOTAL HOURS			73.0						

(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)

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EXHIBIT G - INSTRUCTIONS
FOR PREPARATION OF DATA
ENTRY SHEETS FOR LICENSEE
EVENT REPORT (LER)
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(5)
EXHIBIT I - SAME SOURCE