



PECO NUCLEAR

A UNIT OF PECO ENERGY

PECO Energy Company
PO Box 2300
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T.S.6.9.1.6

May 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 April 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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PDR ADOCK 05000352
R PDR

JE24, 1

Limerick Generating Station
Unit 1
April 1 through April 30, 1996

I. Narrative Summary of Operating Experiences

Unit 1 began the month of April in operational condition 1 with power reduced to 24% rated thermal power (RTP) for electro-hydraulic control (EHC) speed control card trouble shooting.

On April 1, 1996 at 0700 hours, power was reduced to 21% RTP in preparation to take the Main Turbine off the grid for EHC speed controller replacement. On April 2, 1996 at 0451 hours, power was reduced to 5% RTP and the Main Turbine was tripped to perform EHC speed control card replacement. The turbine was resynchronized to the grid at 0755. Power was restored to 100% power on April 3, 1996 at 1030 hours.

On April 3, 1996 at 0741 hours, power was reduced to 78% RTP for a control rod pattern adjustment. Power was restored to 100% RTP power on April 4, 1996 at 0134 hours.

On April 4, 1996 at 0300 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0350 hours.

On April 12, 1996 at 1142 hours, power reduced throughout the day to maintain proper turbine backpressure. Power was restored to 100% RTP at 2217 hours.

On April 20, 1996 at 0310 hours, power was reduced to 92% RTP for main turbine valve and RPS testing. Power was reduced to 86% RTP for a control rod pattern adjustment at 0405 hours. Power was restored to 100% RTP at 0745 hours.

On April 20, 1996 at 1140 hours, power was reduced to 94% RTP due to elevated turbine backpressure. Power was restored to 100% RTP on April 21, 1996 at 0840 hours.

On April 21 through April 30, 1996 power reductions were performed due to cooling tower maintenance causing elevated turbine backpressure. Power was restored to 100% RTP on April 30, 1996 at 2021 hours.

On April 25, 1996 at 0132 hours, power was reduced to 85% RTP for Traversing In-Core Probe system drive testing. Power was restored to 100% RTP at 1419 hours.

On April 27, 1996 at 0225 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0345 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.

DOCKET NO. 50 - 352
UNIT LIMERICK UNIT 1
DATE MAY 7, 1996
COMPANY PECO ENERGY COMPANY
DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

MONTH APRIL, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	189
2	256
3	965
4	1112
5	1120
6	1120
7	1122
8	1124
9	1120
10	1124
11	1112
12	1086
13	1104
14	1108
15	1112
16	1108

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	1111
18	1107
19	1098
20	968
21	1001
22	972
23	862
24	1059
25	1018
26	1087
27	1111
28	1111
29	1075
30	1059

OPERATING DATA REPORT

DOCKET NO. 50 - 352
 DATE MAY 7, 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: APRIL, 1996
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
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 THREE LOAD DROPS
 GREATER THAN 20% THIS MONTH:
 2 ASSOCIATED WITH REPLACEMENT
 OF THE EHC SPEED CONTROL CARD
 AND 1 FOR A CONTROL ROD
 PATTERN ADJUSTMENT.

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	719	2,903	89,807
12. NUMBER OF HOURS REACTOR WAS CRITICAL	719.0	2,223.5	74,447.1
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	715.9	2,142.6	73,142.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,300,794	6,570,168	226,711,063
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	756,300	2,144,600	73,779,080
18. NET ELECTRICAL ENERGY GENERATED (MWH)	731,314	2,064,616	70,856,088

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 352

DATE MAY 7, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	99.6 %	73.8 %	81.4 %
20. UNIT AVAILABILITY FACTOR	99.6 %	73.8 %	81.4 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	92.0 %	65.5 %	74.7 %
22. UNIT CAPACITY FACTOR (USING DER NET)	92.0 %	65.5 %	74.7 %
23. UNIT FORCED OUTAGE RATE	.4 %	.1 %	4.2 %
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): CONTINGENCY OUTAGE TO REPAIR TIP INDEXER IS SCHEDULED FOR THE WEEK OF JUNE 3, 1996 LASTING 4 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	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 7, 1996
COMPLETED BY PECO ENERGY COMPANY
DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

REPORT MONTH APRIL, 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
105	960401	F	0.0	A	4	N/A	HA	INSTRU	REACTOR POWER WAS REDUCED TO 21% DUE TO PREPARATION TO REPLACE EHC SPEED CONTROLLER CARD.
106	960402	F	3.1	A	4	N/A	HA	INSTRU	REACTOR POWER WAS REDUCED TO 5% AND THE MAIN TURBINE WAS TAKEN OFF THE GRID TO REPLACE THE EHC SPEED CONTROLLER CARD.
107	960403	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 78% DUE TO CONTROL ROD PATTERN ADJUSTMENT.
108	960404	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
109	960420	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 92% DUE TO MAIN TURBINE VALVE TESTING AND THEN TO 86% FOR CONTROL ROD PATTERN ADJUSTMENT.
110	960420	F	0.0	B	4	N/A	HA	TURBIN	REACTOR POWER WAS REDUCED TO 94% DUE TO ELEVATED TURBINE BACKPRESSURE BECAUSE OF COOLING TOWER MAINTENANCE.
111	960425	S	0.0	B	4	N/A	RA	CRDRVE	REACTOR POWER WAS REDUCED TO 85% DUE TO TRAVERSING IN-CORE PROBE SYSTEM DRIVE TESTING.
112	960427	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 352
 UNIT NAME LIMERICK UNIT 1
 DATE MAY 7, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
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REPORT MONTH APRIL, 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
TOTAL HOURS			3.1						

(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, 1996

I. Narrative Summary of Operating Experiences

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

On April 6, 1996 at 0152 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0230 hours.

On April 12, 1996 at 2253 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2341 hours.

On April 14, 1996 at 0204 hours, power was reduced to 88% RTP for main turbine valve and RPS testing. Power was restored to 100% RTP at 0438 hours.

On April 23, 1996 at 1559 hours, power reduction to 95% RTP commenced due to elevated turbine backpressure. Power was restored to 100% RTP on April 24, 1996 at 0040 hours.

On April 26, 1996 at 2200 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2245 hours.

On April 27, 1996 at 0748 hours, power was reduced to 70% RTP for a rod pattern adjustment. Power was restored to 100% RTP at 0230 hours.

On April 30, 1996 at 1335 hours, power was reduced to 60% RTP for electro-hydraulic control system leak troubleshooting.

Unit 2 ended this operating period at 60% 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 7, 1996
COMPANY PECO ENERGY COMPANY
DAVID R. HENRICKS
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SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

MONTH APRIL, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	1121
2	1129
3	1121
4	1130
5	1130
6	1134
7	1130
8	1134
9	1135
10	1131
11	1127
12	1114
13	1126
14	1119
15	1131
16	1127

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	1131
18	1128
19	1124
20	1115
21	1115
22	1115
23	1086
24	1123
25	1123
26	1114
27	1021
28	1127
29	1114
30	901

OPERATING DATA REPORT

DOCKET NO. 50 - 353
 DATE MAY 7, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
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OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 2
 2. REPORTING PERIOD: APRIL, 1996
 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

NOTES: THERE WERE TWO LOAD DROP
 GREATER THAN 20% THIS MONTH
 ASSOCIATED WITH A ROD PATTERN
 ADJUSTMENT AND
 TROUBLESHOOTING EHC PROBLEMS.

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	2,903	55,319
12. NUMBER OF HOURS REACTOR WAS CRITICAL	719.0	2,903.0	50,435.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	719.0	2,903.0	49,494.8
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,462,011	9,931,521	158,277,254
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	825,800	3,354,900	52,432,780
18. NET ELECTRICAL ENERGY GENERATED (MWH)	799,840	3,249,305	50,552,936

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 353

DATE MAY 7, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0 %	100.0 %	89.5 %
20. UNIT AVAILABILITY FACTOR	100.0 %	100.0 %	89.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.8 %	100.4 %	85.6 %
22. UNIT CAPACITY FACTOR (USING DER NET)	99.8 %	100.4 %	85.6 %
23. UNIT FORCED OUTAGE RATE	.0 %	.0 %	3.1 %
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): EQUIPMENT RELIABILITY OUTAGE FOR SRV WORK SCHEDULED FOR 9/15/96 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 MAY 7, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH APRIL, 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
101	960406	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
102	960412	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
103	960414	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 88% DUE TO MAIN TURBINE VALVE TESTING.
104	960423	F	0.0	H	4	N/A	HA	TURBIN	REACTOR POWER WAS REDUCED TO 95% DUE TO ELEVATED TURBINE BACKPRESSURE DUE TO HIGHER THAN NORMAL AMBIENT TEMPERATURE.
105	960426	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
106	960427	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 70% DUE TO ROD PATTERN ADJUSTMENT.
107	960430	F	0.0	A	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 60% DUE TO ELECTROHYDRAULIC CONTROL SYSTEM LEAK TROUBLESHOOTING.
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)
 EXHIBIT G - INSTRUCTIONS
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 ENTRY SHEETS FOR LICENSEE
 EVENT REPORT (LER)
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(5)
 EXHIBIT I - SAME SOURCE