



PECO NUCLEAR

A UNIT OF PECO ENERGY

PECO Energy Company
PO Box 2300
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T.S.6.9.1.6

June 11, 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 May 1996 forwarded
pursuant to Technical Specification 6.9.1.6.

Very truly yours,

Michael P. Gallagher
Director - Site Engineering

grh

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
May 1 through May 31, 1996

I. Narrative Summary of Operating Experiences

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

On May 10, 1996 at 1600 hours, power was reduced to 97% RTP due to elevated turbine backpressure and for main turbine valve testing. Power was restored to 100% RTP on May 11, 1996 at 0059 hours.

On May 11, 1996 at 0132 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0229 hours.

On May 11, 1996 at 1157 hours, power was reduced to 85% RTP due to elevated turbine backpressure. Power was restored to 100% RTP at 1818 hours.

On May 17, 1996 at 2159 hours, power was reduced to 98% RTP for main turbine valve and RPS testing. Power was restored to 100% RTP at 2255 hours.

On May 18, 1996 at 0829 hours, power was reduced to 91% RTP for main turbine valve and RPS testing. Power was restored to 100% RTP power at 1042 hours.

On May 19, 1996 at 1025 hours, power was reduced to 85% RTP due to elevated turbine backpressure. Power was restored to 100% RTP on May 21, 1996 at 2100 hours.

On May 21, 1996 at 2240 hours, a reactor scram occurred due to a pressure spike during the performance of a MSIV surveillance test. Power was restored to 100% RTP May 25, 1996 at 0110 hours.

On May 25, 1996 at 0919 hours, power was reduced to 77% RTP for a control rod pattern adjustment. Power was restored to 100% RTP at 1535 hours.

On May 27, 1996 at 0111 hours, power was reduced to 86% RTP for minimum generation and control rod pattern adjustment. Power was restored to 100% RTP at 0729 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 May.

AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 352
 UNIT LIMERICK UNIT 1
 DATE JUNE 11, 1996
 COMPANY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

MONTH MAY, 1996

DAY AVERAGE DAILY POWER LEVEL
 (MWE-NET)

1	1102
2	1098
3	1100
4	1101
5	1103
6	1106
7	1109
8	1109
9	1105
10	1088
11	1052
12	1105
13	1110
14	1106
15	1101
16	1096

DAY AVERAGE DAILY POWER LEVEL
 (MWE-NET)

17	1101
18	1088
19	1099
20	1004
21	983
22	0
23	0
24	393
25	1066
26	1106
27	1079
28	1109
29	1109
30	1108
31	1106

OPERATING DATA REPORT

DOCKET NO. 50 - 352
 DATE JUNE 11, 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: MAY, 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 TWO LOAD DROPS
 GREATER THAN 20% THIS MONTH.
 ONE ASSOC. WITH A REACTOR
 SCRAM DUE TO A HIGH PRESSURE
 SPIKE WHILE CYCLING MSIVs AND
 CONTROL ROD PATTERN ADJ.

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	3,647	90,551
12. NUMBER OF HOURS REACTOR WAS CRITICAL	709.3	2,932.8	75,156.5
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	693.0	2,835.6	73,835.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,333,323	8,903,491	229,044,386
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	770,600	2,915,200	74,549,680
18. NET ELECTRICAL ENERGY GENERATED (MWH)	741,874	2,806,490	71,597,962

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 352

DATE JUNE 11, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	93.1 %	77.8 %	81.5 %
20. UNIT AVAILABILITY FACTOR	93.1 %	77.8 %	81.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	90.2 %	70.5 %	74.8 %
22. UNIT CAPACITY FACTOR (USING DER NET)	90.2 %	70.5 %	74.8 %
23. UNIT FORCED OUTAGE RATE	6.9 %	1.9 %	4.2 %

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 JUNE 11, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH MAY, 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
113	960510	F	0.0	H	4	N/A	HF	HTEXCH	REACTOR POWER WAS REDUCED TO 97% DUE TO ELEVATED TURBINE BACKPRESS BECAUSE OF HIGHER THAN NORMAL AMBIENT TEMPERATURE.
114	960511	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
115	960511	F	0.0	H	4	N/A	HF	HTEXCH	REACTOR POWER WAS REDUCED TO 85% DUE TO ELEVATED TURBINE BACKPRESS BECAUSE OF HIGHER THAN NORMAL AMBIENT TEMPERATURE.
116	960517	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE AND RPS TESTING.
117	960518	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 91% DUE TO MAIN TURBINE VALVE AND RPS TESTING.
118	960519	F	0.0	H	4	N/A	HF	HTEXCH	REACTOR POWER WAS REDUCED TO 85% DUE TO ELEVATED TURBINE BACKPRESS BECAUSE OF HIGHER THAN NORMAL AMBIENT TEMPERATURE.
119	960521	F	51.0	B	3	1-96-013	CD	VALVEX	REACTOR SCRAM DUE TO A PRESSURE SPIKE DURING THE PERFORMANCE OF A MSIV SURVEILLANCE TEST.
120	960525	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 77% DUE TO CONTROL ROD PATTERN ADJUSTMENT.

(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 JUNE 11, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH MAY, 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
121	960527	F	0.0	H	4	N/A	ZZ	ZZZZZZ	REACTOR POWER WAS REDUCED TO 86% AT THE REQUEST OF THE LOAD DISPATCHER FOR MINIMUM GENERATION AND ROD PATTERN ADJUSTMENT.
TOTAL HOURS			51.0						

(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
May 1 through May 31, 1996

I. Narrative Summary of Operating Experiences

Unit 2 began the month of May at a nominal 60% of rated thermal power (RTP).

On May 1, 1996 at 0928 hours, power was reduced to 25% RTP and the turbine was taken off line at 1135 hours to perform a control valve electro-hydraulic control system leak repair. The main turbine was synchronized May 2, 1996 at 0625 and was tripped at 1017 to replace a backup overspeed relay. Power was restored to 100% RTP on May 4 at 1137 hours.

On May 5, 1996 at 0835 hours, power was reduced to 75% RTP for a rod pattern adjustment. Power was restored to 100% RTP at 1658 hours.

On May 11, 1996 at 0123 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0229 hours.

On May 12, 1996 at 0212 hours, power was reduced to 87% RTP for main turbine valve testing. Power was restored to 100% RTP at 0515 hours.

On May 14, 1996 at 1033 hours, a reactor scram occurred from a turbine trip associated with grid instability. Power was restored to 100% RTP May 18, 1996 at 0552 hours.

On May 18, 1996 at 2325 hours, power was reduced to 77% RTP for a rod pattern adjustment. Power was restored to 100% RTP May 19, 1996 at 1115 hours.

On May 26, 1996 at 0445 hours, power was reduced to 95% RTP for minimum generation conditions. Power was restored to 100% RTP at 0825 hours.

On May 30, 1996 at 1745 hours, power was reduced to 98% RTP for HCU accumulator trouble. Power was restored to 100% RTP at 1818 hours.

On May 31, 1996 at 1503 hours, power was reduced to 79% RTP for main turbine valve testing and an HCU repair was performed. Power was restored to 100% RTP at 2202 hours.

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

II. Challenges to Main Steam Safety Relief Valves

On May 14, 1996 at 10:33 hours, the 2E SRV lifted during a scram. The SRV lifted at approximately 1155 psig and reclosed 8 seconds later at approximately 1035 psig.

AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 353
 UNIT LIMERICK UNIT 2
 DATE JUNE 11, 1996
 COMPANY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

MONTH MAY, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	270
2	18
3	510
4	953
5	1083
6	1125
7	1137
8	1129
9	1130
10	1128
11	1122
12	1118
13	1135
14	488
15	0
16	12

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	438
18	1057
19	1012
20	1110
21	1109
22	1109
23	1111
24	1118
25	1132
26	1123
27	1132
28	1132
29	1131
30	1131
31	1094

OPERATING DATA REPORT

DOCKET NO. 50 - 353
 DATE JUNE 11, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
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OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 2
2. REPORTING PERIOD: MAY, 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
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 SIX LOAD DROPS
 GREATER THAN 20% THIS MONTH;
 EHC LEAK, FAILED TURBINE TRIP
 RELAY, ROD PATTERN ADJ.(2),
 REACTOR SCRAM, TURBINE VALVE
 TESTING.

	THIS MONTH	YR-TO-DATE	CUMULATIVE
11. HOURS IN REPORTING PERIOD	744	3,647	56,063
12. NUMBER OF HOURS REACTOR WAS CRITICAL	721.0	3,624.0	51,156.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	655.7	3,558.7	50,150.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,308,467	12,239,988	160,585,721
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	702,400	4,057,300	53,135,180
18. NET ELECTRICAL ENERGY GENERATED (MWH)	678,894	3,928,199	51,231,830

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 353

DATE JUNE 11, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	88.1 %	97.6 %	89.5 %
20. UNIT AVAILABILITY FACTOR	88.1 %	97.6 %	89.5 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	81.8 %	96.6 %	85.5 %
22. UNIT CAPACITY FACTOR (USING DER NET)	81.8 %	96.6 %	85.5 %
23. UNIT FORCED OUTAGE RATE	11.9 %	2.4 %	3.3 %
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 JUNE 11, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH MAY, 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
108	960501	F	18.8	A	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 25% AND THE TURBINE WAS TAKEN OFF THE GRID DUE TO REPAIR OF TURBINE EHC LEAK.
109	960502	F	12.7	A	4	N/A	HA	INSTRU	REACTOR POWER WAS REDUCED AND THE TURBINE WAS TAKEN OFF THE GRID DUE TO A FAILED BACKUP OVERSPEED TRIP TEST.
110	960505	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 75% DUE TO ROD PATTERN ADJUSTMENT.
111	960512	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
112	960512	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 87% DUE TO MAIN TURBINE VALVE TESTING.
113	960514	F	56.8	H	3	2-96-004	ZZ	ZZZZZZ	REACTOR SCRAM DUE TO TURBINE TRIP CAUSED BY GRID INSTABILITY.
114	960518	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 77% DUE TO ROD PATTERN ADJUSTMENT.
115	960526	F	0.0	H	4	N/A	ZZ	ZZZZZZ	REACTOR POWER WAS REDUCED TO 95% AT THE REQUEST OF THE LOAD DISPATCHER FOR MINIMUM GENERATION.
116	960530	F	0.0	A	4	N/A	HA	ACCUMU	REACTOR POWER WAS REDUCED TO 98% DUE TO
(1)		(2)		(3)		(4)		(5)	
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)		EXHIBIT I - SAME SOURCE	

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 353
 UNIT NAME LIMERICK UNIT 2
 DATE JUNE 11, 1996
 COMPLETED BY PECO ENERGY COMPANY
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REPORT MONTH MAY, 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
117	960531	S	0.0	B	4	N/A	HA	VALVEX	HCU ACCUMULATOR TROUBLE. REACTOR POWER WAS REDUCED TO 79% DUE TO MAIN TURBINE VALVE TESTING AND HCU REPAIR.
TOTAL HOURS			88.3						

(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)
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(5)
 EXHIBIT I - SAME SOURCE