



PECO NUCLEAR

A UNIT OF PECO ENERGY

PECO Energy Company
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T.S.6.9.1.6

September 12, 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 August 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

IE241/

Limerick Generating Station
Unit 1
August 1 through August 31, 1996

I. Narrative Summary of Operating Experiences

Unit 1 began the month of August 1996 at a nominal 100% of rated thermal power (RTP).

On August 2, 1996 at 1050 hours, power was reduced to 98% RTP for hydraulic control unit accumulator trouble shooting and repair. Power was restored to 100% RTP at 1126 hours.

On August 2, 1996 at 1702 hours, power was reduced to 90% RTP for control rod pattern adjustments. Power was raised to 98% RTP at 1753 hours. At 2020 hours, power was reduced to 85% RTP due to a feedwater heater drain valve malfunction. Power was further reduced at 2223 hours to 77% RTP to ensure adequate margin during feedwater recovery. Power was restored to 100% RTP on August 3, 1996 at 0422 hours.

On August 9, 1996 at 1430 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 1815 hours.

On August 17, 1996 at 2310 hours, power was reduced to 91% RTP for main turbine and main steam isolation valve testing. Power was restored to 100% RTP on August 18, 1996 at 0320 hours.

On August 24, 1996 at 0210 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0313 hours.

On August 31, 1996 at 0100 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0200 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 August.

AVERAGE DAILY POWER LEVEL

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

MONTH AUGUST, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	1100
2	1058
3	1074
4	1099
5	1095
6	1095
7	1091
8	1100
9	1096
10	1100
11	1104
12	1104
13	1105
14	1103
15	1095
16	1099

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	1096
18	1088
19	1104
20	1095
21	1100
22	1092
23	1092
24	1096
25	1101
26	1105
27	1097
28	1099
29	1095
30	1104
31	1100

OPERATING DATA REPORT

DOCKET NO. 50 - 352
 DATE SEPTEMBER 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: AUGUST, 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

NOTES: THERE WAS ONE LOAD DROP
 GREATER THAN 20% THIS MONTH
 DUE TO THE RECOVERY FROM A
 FEEDWATER HEATER DRAIN VALVE
 MALFUNCTION.

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	744	5,855	92,759
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	4,974.7	77,198.4
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	4,831.1	75,831.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,564,148	15,641,964	235,782,859
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	843,600	5,117,200	76,751,680
18. NET ELECTRICAL ENERGY GENERATED (MWH)	815,525	4,932,268	73,723,740

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 352

DATE SEPTEMBER 11, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0 %	82.5 %	81.8 %
20. UNIT AVAILABILITY FACTOR	100.0 %	82.5 %	81.8 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.2 %	76.8 %	75.1 %
22. UNIT CAPACITY FACTOR (USING DER NET)	99.2 %	76.8 %	75.1 %
23. UNIT FORCED OUTAGE RATE	.0 %	5.2 %	4.4 %
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 SEPTEMBER 11, 1996
COMPLETED BY PECO ENERGY COMPANY
DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

REPORT MONTH AUGUST, 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
140	960802	F	0.0	A	4	N/A	HA	ACCUMU	REACTOR POWER WAS REDUCED TO 98% DUE TO HCU ACCUMULATOR TROUBLE SHOOTING AND REPAIR.
141	960802	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 90% DUE TO CONTROL ROD PATTERN ADJUSTMENT.
142	960802	F	0.0	A	4	N/A	CH	VALVEX	REACTOR POWER WAS REDUCED TO 77% DUE TO A FEEDWATER HEATER DRAIN VALVE MALFUNCTION.
143	960809	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
144	960817	S	0.0	B	4	N/A	CC	VALVEX	REACTOR POWER WAS REDUCED TO 91% DUE TO MAIN TURBINE AND MAIN STEAM ISOLATION VALVE TESTING.
145	960824	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
146	960831	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)
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
August 1 through August 31, 1996

I. Narrative Summary of Operating Experiences

Unit 2 began the month of August 1996 at a nominal 100% of rated thermal power (RTP).

On August 3, 1996 at 2111 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2328 hours.

On August 9, 1996 at 2330 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP on August 10, 1996 at 0050 hours.

On August 10, 1996 at 2354 hours, power was reduced to 88% RTP for a rod pattern adjustment and main turbine valve testing. Power was restored to 100% RTP on August 11, 1996 at 0831 hours.

On August 16, 1996 at 2250 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP on August 17, 1996 at 0100 hours.

On August 24, 1996 at 0200 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0250 hours.

On August 27, 1996 at 0254 hours, power was reduced to 98% RTP due to loss of core thermal power MW indication. Power was restored to 100% RTP at 0539 hours.

On August 28, 1996 at 1235 hours, power was reduced to 98% RTP due to computer point for RWCU flow indication out of service. Power was restored to 100% RTP at 1543 hours.

On August 31, 1996 at 0130 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 0239 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 August.

AVERAGE DAILY POWER LEVEL

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

MONTH AUGUST, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

1	1110
2	1115
3	1107
4	1119
5	1111
6	1107
7	1106
8	1109
9	1118
10	1109
11	1055
12	1120
13	1116
14	1120
15	1116
16	1112

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

17	1116
18	1115
19	1112
20	1115
21	1113
22	1111
23	1107
24	1107
25	1115
26	1118
27	1110
28	1112
29	1111
30	1120
31	1116

OPERATING DATA REPORT

DOCKET NO. 50 - 353
 DATE SEPTEMBER 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 2
 2. REPORTING PERIOD: AUGUST, 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 NO LOAD DROP
 GREATER THAN 20% THIS MONTH.

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	744	5,855	58,271
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	5,832.0	53,364.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	5,766.7	52,358.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,565,247	19,809,603	168,155,335
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	855,700	6,581,200	55,659,080
18. NET ELECTRICAL ENERGY GENERATED (MWH)	826,761	6,364,259	53,667,890

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 353

DATE SEPTEMBER 11, 1996

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0 %	98.5 %	89.9 %
20. UNIT AVAILABILITY FACTOR	100.0 %	98.5 %	89.9 %
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.7 %	97.5 %	86.0 %
22. UNIT CAPACITY FACTOR (USING DER NET)	99.7 %	97.5 %	86.0 %
23. UNIT FORCED OUTAGE RATE	.0 %	1.5 %	3.1 %
24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): MAINTENANCE OUTAGE FOR SRV WORK SCHEDULED FOR 10/21/96 LASTING 6 DAYS. REFUELING OUTAGE SCHEDULED FOR 1/24/97 LASTING 22 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 SEPTEMBER 11, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH AUGUST, 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
129	960803	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
130	960809	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
131	960810	S	0.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 88% DUE TO ROD PATTERN ADJUSTMENT AND MAIN TURBINE VALVE TESTING.
132	960816	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
133	960824	S	0.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING.
134	960827	F	0.0	A	4	N/A	IE	INSTRU	REACTOR POWER WAS REDUCED TO 98% DUE TO THE LOSS OF CORE THERMAL POWER MW INDICATION.
135	960828	F	0.0	A	4	N/A	IE	INSTRU	REACTOR POWER WAS REDUCED TO 98% DUE TO COMPUTER POINT FOR RWCU FLOW INDICATION OUT OF SERVICE.
136	960831	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)

(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