



PECO Energy Company
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Sanatoga, PA 19464-0920

T.S.6.9.1.6

April 13, 1994

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 March, 1994 forwarded pursuant to
Technical Specification 6.9.1.6.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Michael P. Jelliffe for JAM".

James A. Muntz
Director - Site Engineering

sjk

Enclosures

cc: T. T. Martin, Administrator, Region I, USNRC (w/enclosures)
N. S. Perry, USNRC Senior Resident Inspector LGS
(w/enclosures)
D. R. Helwig, Vice President, Limerick Generating Station

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Handwritten initials "JEA" with a vertical line below them.

Limerick Generating Station
Unit 1
March 1 through March 31, 1994

I. Narrative Summary of Operating Experiences

Unit 1 began this operating period in Operational Condition (OPCON) 4, Cold Shutdown, in day 25 of refueling outage number 5.

On March 10, 1994, at 1111 hours the reactor mode switch was placed in Startup and Unit 1 entered OPCON 2. The reactor went critical at 1346 hours on March 10, 1994.

Unit 1 entered OPCON 1, Power Operation, at 1707 hours on March 11, 1994 and at 2246 hours Unit 1 was synchronized to the grid. On March 13, 1994, at 1912 hours Unit 1 reached 100% Rated Thermal Power (RTP).

On March 17, 1994, at 2100 hours power was reduced to 90% RTP for a control rod pattern adjustment. Power was restored to 100% RTP shortly thereafter.

On March 18, 1994, at 1115 hours power was reduced to 80% RTP for post modification testing of changes which allow for more operational flexibility (ARTS/MELLLA). Power was restored to 100% RTP following successful post modification testing.

Unit 1 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 March.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 352

UNIT LIMERICK UNIT 1

DATE APRIL 13, 1994

COMPANY PECO ENERGY COMPANY

STEVEN J. KELLEY
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION

TELEPHONE (610) 327-1200 EXTENSION 3763

MONTH MARCH 1994

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	0	17	1056
2	0	18	1051
3	0	19	1067
4	0	20	1058
5	0	21	1063
6	0	22	1059
7	0	23	1055
8	0	24	1052
9	0	25	1060
10	0	26	1058
11	0	27	1059
12	172	28	1058
13	811	29	1058
14	1051	30	1059
15	1053	31	1055
16	1061		

OPERATING DATA REPORT

DOCKET NO. 50 - 352

DATE APRIL 13, 1994

COMPLETED BY PECO ENERGY COMPANY

STEVEN J. KELLEY
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION

TELEPHONE (610) 327-1200 EXTENSION 3763

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 1
 2. REPORTING PERIOD: MARCH, 1994
 3. LICENSED THERMAL POWER(MWT): 3293
 4. NAMEPLATE RATING (GROSS MWE): 1138
 5. DESIGN ELECTRICAL RATING (NET MWE): 1055
 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1092
 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES: THERE WERE TWO LOAD REDUCTIONS
 GREATER THAN 20% THIS MONTH
 DUE TO A SHUTDOWN FOR A
 REFUELING OUTAGE AND FOR A
 MODIFICATION.

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 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	2,160	71,544
12. NUMBER OF HOURS REACTOR WAS CRITICAL	514.2	1,309.2	57,508.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	480.6	1,252.7	56,437.5
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	1,520,165	3,390,833	172,841,592
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	496,360	1,083,630	56,125,670
18. NET ELECTRICAL ENERGY GENERATED (MWH)	479,012	1,038,450	53,824,440

 DATE APRIL 13, 1994

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	64.6	58.0	78.9
20. UNIT AVAILABILITY FACTOR	64.6	58.0	78.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	61.0	45.6	71.3
22. UNIT CAPACITY FACTOR (USING DER NET)	61.0	45.6	71.3
23. UNIT FORCED OUTAGE RATE	0.0	4.3	4.7

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

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	FORECAST	ACHIEVED
INITIAL CRITICALITY	12/19/84	12/22/84
INITIAL ELECTRICITY	MID APRIL 85	4/13/85
COMMERCIAL OPERATION	1ST QTR 86	2/01/86

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 352

UNIT NAME LIMERICK UNIT 1

DATE APRIL 13, 1994

REPORT MONTH MARCH, 1994

COMPLETED BY PECC ENERGY COMPANY

STEVEN J. KELLEY
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 327-1200 EXTENSION 3763

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
3	940301	S	263.4	C	2		RC	VESSEL	UNIT WAS SHUTDOWN FOR REFUEL.
4	940317	S	000.0	B	4		RB	CONROD	REACTOR POWER WAS REDUCED TO 90% FOR A CONTROL ROD PATTERN ADJUSTMENT.
5	940318	S	000.0	H	4		RB	INSTRU	REACTOR POWER WAS REDUCED TO 80% FOR INSTALLATION OF A MODIFICATION.
			----- 263.4						

(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
March 1 through March 31, 1994

I. Narrative Summary of Operating Experiences

Limerick Unit 2 began the month of March at a nominal 100% of Rated Thermal Power (RTP).

On March 13, 1994, at 1308 hours power was reduced to 90% RTP for main turbine valve testing. Power was restored to 100% at 1345 hours.

On March 26, 1994, at 0400 hours power was reduced to 78% RTP for a control rod pattern adjustment and control rod SCRAM time testing. Power was restored to 100% RTP at 2040 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 March.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 353
 UNIT LIMERICK UNIT 2
 DATE APRIL 13, 1994
 COMPANY PECO ENERGY COMPANY
 STEVEN J. KELLEY
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 327-1200 EXTENSION 3763

MONTH MARCH 1994

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1075	17	1072
2	1075	18	1074
3	1072	19	1073
4	1073	20	1071
5	1068	21	1074
6	1070	22	1067
7	1065	23	1066
8	1061	24	1043
9	1072	25	1068
10	1064	26	971
11	1063	27	1072
12	1064	28	1070
13	1058	29	1071
14	1065	30	1072
15	1071	31	1069
16	1071		

OPERATING DATA REPORT

DOCKET NO. 50 - 353

DATE APRIL 13, 1994

COMPLETED BY PECO ENERGY COMPANY

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING

LIMERICK GENERATING STATION
TELEPHONE (610) 327-1200 EXTENSION 3763

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 2

2. REPORTING PERIOD: MARCH, 1994

3. LICENSED THERMAL POWER (MWT): 3293

4. NAMEPLATE RATING (GROSS MWE): 1138

5. DESIGN ELECTRICAL RATING (NET MWE): 1055

6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1092

7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

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

8. IF CHANGES OCCUR IN CAPACITY RATINGS (ITEMS NUMBER 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	2,160	37,056
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	2,160.0	32,802.6
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	2,160.0	32,106.7
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,441,158	7,049,287	102,354,368
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	821,290	2,371,360	33,863,886
18. NET ELECTRICAL ENERGY GENERATED (MWH)	792,513	2,292,042	32,622,734

 DATE APRIL 13, 1994

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	100.0	86.6
20. UNIT AVAILABILITY FACTOR	100.0	100.0	86.6
21. UNIT CAPACITY FACTOR (USING MDC NET)	101.0	100.6	83.4
22. UNIT CAPACITY FACTOR (USING DER NET)	101.0	100.6	83.4
23. UNIT FORCED OUTAGE RATE	0.0	0.0	3.8
24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):			

25. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

26. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION):	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 APRIL 13, 1994

REPORT MONTH MARCH, 1994

COMPLETED BY PECO ENERGY COMPANY

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 LIMERICK GENERATING STATION
 TELEPHONE (610) 327-1200 EXTENSION 3763

NO.	DATE	TYPE (1)	DURATION (HOURS) (2)	REASON (3)	METHOD OF SHUTTING DOWN REACTOR (4)	LICENSEE EVENT REPORT #	SYSTEM CODE (5)	COMPONENT CODE (6)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
3	940313	S	000.0	B	4	N/A	HA	INSTRU	REACTOR POWER WAS REDUCED TO 90% FOR MAIN TURBINE VALVE TESTING.
4	940318	S	000.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 78% FOR A CONTROL ROD PATTERN ADJUSTMENT.

(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