PECO ENERGY

PECO Energy Company
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Sanatoga, PA 19464-0920

T.S.6.9.1.6

December 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 November 1994 forwarded pursuant to Technical Specification 6.9.1.6.

Very truly yours,

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



JE24

Docket No. 50-352
Attachment to Monthly
Operating Report for
November 1994

Limerick Generating Station
Unit 1
November 1 through November 30, 1994

I. Narrative Summary of Operating Experiences

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

On November 1, 1994, at 1553 hours, power was reduced to 94% RTP due to high turbine backpressure. Power was restored to 100% at 1825 hours.

On November 3, 1994, at 0511 hours power was reduced to 95% RTP in order to remove the '6C' feedwater heater from service for minor maintenance work. Power was restored to 100% at 0657 hours. On November 4, 1994, at 1706 hours, power was reduced to return the '6C' feedwater heater to service. Power was restored to 100% at 1823 hours.

On November 5, 1994, at 1203 hours power was reduced to 75% RTP in order to perform core flow adjustments and for control rod insertions to provide for additional shielding of an identified leaking fuel bundle. Power was restored to 98.8% RTP on November 6, 1994, at 0250 hours.

On November 6, 1994, at 1723 hours, power was reduced to 98.3% RTP due to high turbine backpressure. Power was restored to 100% RTP on November 7, 1994, at 1913 hours.

On November 21, 1994, at 1110 hours, power was reduced due to high turbine backpressure. Power was restored to 100% RTP on November 22, 1994, at 0040 hours.

On November 28, 1994, at 1223 hours, power was reduced to 88% RTP due to the receipt of the main condenser low vacuum alarm. The cause of the alarm was elevated circulating water temperatures due to excessively high winds. Power was restored to 100% RTP on November 29, 1994, at 0230 hours.

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 November.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 352
UNIT LIMERICK UNIT 1
DATE DECEMBER 13,1994
COMPANY PECO ENERGY COMPANY

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION

TELEPHONE (610) 718-3763

MONTH NOVEMBER 1994

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|---|---|---|---|
| 1 | 1039 | 17 | 1040 |
| 2 | 1011 | 18 | 1032 |
| 3 | 1089 | 19 | 1039 |
| 4 | 1040 | 20 | 1042 |
| 5 | 998 | 21 | 1017 |
| 6 | 1024 | 22 | 1039 |
| 7 | 1039 | 23 | 1053 |
| 8 | 1046 | 24 | 1057 |
| 9 | 1041 | 25 | 1049 |
| 10 | 1047 | 26 | 1051 |
| 11 | 1053 | 27 | 1056 |
| 12 | 1051 | 28 | 1005 |
| 13 | 1045 | 29 | 1048 |
| 14 | 1085 | 30 | 1056 |
| 15 | 992 | | |
| 16 | 1045 | | |

OPERATING DATA REPORT

DOCKET NO. 50 - 352
DATE DECEMBER 13,1994
COMPLETED BY PECO ENERGY COMPANY

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3763

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 1
2. REPORTING PERIOD: NOVEMBER, 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 WAS ONE LOAD DROP GREATER THAN 20% THIS MONTH TO PERFORM CORE FLOW ADJUSTMENTS.

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 | 720 | 8,016 | 77,400 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 720.0 | 7,155.2 | 63,364.3 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 720.0 | 7,096.7 | 62,281.5 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,358,766 | 22,418,175 | 191,868,934 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 776,190 | 7,328,320 | 62,970,360 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 749,463 | 7,071,007 | 59,856,997 |

DATE DECEMBER 13,1994

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---|---|---|---|
| 19. UNIT SERVICE FACTOR | 100.0 | 88.5 | 80.5 |
| 20. UNIT AVAILABILITY FACTOR | 100.0 | 88.5 | 80.5 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 98.7 | 83.6 | 73.3 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 98.7 | 83.6 | 73.3 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 1.0 | 4.3 |

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 DECEMBER 13,1994
COMPLETED BY PECO ENERGY COMPANY

REPORT MONTH NOVEMBER, 1994

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3763

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 941101 | F | 000.0 | H | 4 | N/A | HA | TURBIN | REACTOR POWER WAS REDUCED TO 94% DUE TO HIGH TURBINE BACKPRESSURE. |
| 38 | 941103 | S | 000.0 | B | 4 | N/A | CH | HTEXCH | REACTOR POWER WAS REDUCED TO 95% DUE TO FEEDWATER HEATER MAINTENANCE. |
| 39 | 941105 | F | 000.0 | H | 4 | N/A | RA | CONROD | REACTOR POWER WAS REDUCED TO 75% TO PERFORM CORE FLOW ADJUSTMENTS. |
| 40 | 941106 | F | 000.0 | H | 4 | N/A | HA | TURBIN | REACTOR POWER WAS REDUCED TO 98.3% DUE TO HIGH TURBINE BACKPRESSURE. |
| 41 | 941121 | F | 000.0 | H | 4 | N/A | HA | TURBIN | REACTOR POWER WAS REDUCDED TO 98% DUE TO HIGH TURBINE BACKPRESSURE. |
| 42 | 941128 | F | 000.0 | H | 4 | N/A | CB | HTEXCH | REACTOR POWER WAS REDUCDED TO 88% DUE TO HIGH CIRC. WATER TEMPERATURES. |
| | | | ----- | | | | | | |
| | | | - | | | | | | |

(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

Docket No. 50-353
Attachment to Monthly
Operating Report for
November 1994

Limerick Generating Station
Unit 2
November 1 through November 30, 1994

I. Narrative Summary of Operating Experiences

Unit 2 began the month of November at 88.8% of Rated Thermal Power (RTP) in end-of-cycle coastdown. Power reduction occurred throughout due to end-of-cycle coastdown.

Unit 2 ended this operating period at 75.2% of RTP due to end-of-cycle coastdown.

II. Challenges to Main Steam Safety Relief Valves

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 353
UNIT LIMERICK UNIT 2
DATE DECEMBER 13,1994
COMPANY PECO ENERGY COMPANY

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION

TELEPHONE (610) 718-3763

MONTH NOVEMBER 1994

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|---|---|---|---|
| 1 | 888 | 17 | 813 |
| 2 | 890 | 18 | 803 |
| 3 | 886 | 19 | 801 |
| 4 | 869 | 20 | 800 |
| 5 | 867 | 21 | 790 |
| 6 | 860 | 22 | 771 |
| 7 | 865 | 23 | 803 |
| 8 | 858 | 24 | 787 |
| 9 | 848 | 25 | 771 |
| 10 | 851 | 26 | 771 |
| 11 | 851 | 27 | 770 |
| 12 | 846 | 28 | 756 |
| 13 | 832 | 29 | 760 |
| 14 | 827 | 30 | 755 |
| 15 | 821 | | |
| 16 | 822 | | |

OPERATING DATA REPORT

DOCKET NO. 50 - 353
DATE DECEMBER 13,1994
COMPLETED BY PECO ENERGY COMPANY

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3763

OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 2
2. REPORTING PERIOD: NOVEMBER, 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 WAS ONE LOAD DROP GREATER THAN 20% THIS MONTH DUE END OF CYCLE COASTDOWN.

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 | 720 | 8,016 | 42,912 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 720.0 | 7,976.4 | 38,619.0 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 720.0 | 7,914.2 | 37,860.9 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 1,930,728 | 25,251,596 | 120,556,677 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 615,540 | 8,363,120 | 39,855,646 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 591,144 | 8,068,946 | 38,399,638 |

DATE DECEMBER 13,1994

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---|---|---|---|
| 19. UNIT SERVICE FACTOR | 100.0 | 98.7 | 88.2 |
| 20. UNIT AVAILABILITY FACTOR | 100.0 | 98.7 | 88.2 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 77.8 | 95.4 | 84.8 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 77.8 | 95.4 | 84.8 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 1.3 | 3.5 |

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
SCHEDULED REFUEL OUTAGE ON 1/28/95

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 DECEMBER 13,1994
COMPLETED BY PECO ENERGY COMPANY

REPORT MONTH NOVEMBER, 1994

STEVEN J. KELLEY
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3763

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| 27 | 941119 | S | 000.0 | C | 4 | N/A | CH | HTEXCH | REACTOR POWER WAS REDUCED TO 79.8% FOR REFUELING OUTAGE COASTDOWN. |

(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