



PECO NUCLEAR

A UNIT OF PECO ENERGY

PECO Energy Company
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T.S.6.9.1.6

November 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 October 1996 forwarded pursuant to Technical Specification 6.9.1.6.

Very truly yours,

Edward F. Sproat, III
Director - Site Engineering

drh

Enclosures

cc: H. J. Miller, 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
October 1 through October 31, 1996

I. Narrative Summary of Operating Experiences

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

On October 4, 1996 at 2220 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2305 hours.

On October 11, 1996 at 2253 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP on October 12, 1996 at 0000 hours.

On October 18, 1996 at 2230 hours, power was reduced to 92% RTP for control rod pattern adjustment and main turbine valve testing. Power was restored to 100% RTP on October 19, 1996 at 0139 hours.

On October 22, 1996 at 1144 hours, power was reduced to 90% RTP for main turbine front standard oil leak. Power was restored to 100% RTP on October 22, 1996 at 1446 hours.

On October 25, 1996 at 2220 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP on October 26, 1996 at 0008 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 October.

AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 352
UNIT LIMERICK UNIT 1
DATE NOVEMBER 13, 1996
COMPANY PECO ENERGY COMPANY
DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

MONTH OCTOBER, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

| | |
|----|------|
| 1 | 1105 |
| 2 | 1113 |
| 3 | 1113 |
| 4 | 1117 |
| 5 | 1121 |
| 6 | 1115 |
| 7 | 1117 |
| 8 | 1113 |
| 9 | 1117 |
| 10 | 1113 |
| 11 | 1122 |
| 12 | 1117 |
| 13 | 1113 |
| 14 | 1109 |
| 15 | 1118 |
| 16 | 1114 |

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

| | |
|----|------|
| 17 | 1105 |
| 18 | 1109 |
| 19 | 1112 |
| 20 | 1116 |
| 21 | 1116 |
| 22 | 1108 |
| 23 | 1108 |
| 24 | 1112 |
| 25 | 1113 |
| 26 | 1113 |
| 27 | 1111 |
| 28 | 1113 |
| 29 | 1121 |
| 30 | 1108 |
| 31 | 1116 |

OPERATING DATA REPORT

DOCKET NO. 50 - 352
 DATE NOVEMBER 13, 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: OCTOBER, 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 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 | 745 | 7,320 | 94,224 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 745.0 | 6,439.7 | 78,663.4 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 745.0 | 6,296.1 | 77,296.0 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,566,918 | 20,696,686 | 240,837,581 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 857,300 | 6,796,300 | 78,430,780 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 829,445 | 6,555,861 | 75,347,333 |

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 352

DATE NOVEMBER 13, 1996

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|---|--------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 100.0 % | 86.0 % | 82.0 % |
| 20. UNIT AVAILABILITY FACTOR | 100.0 % | 86.0 % | 82.0 % |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 100.8 % | 81.5 % | 75.5 % |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 100.8 % | 81.5 % | 75.5 % |
| 23. UNIT FORCED OUTAGE RATE | .0 % | 4.1 % | 4.3 % |
| 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 NOVEMBER 13, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH OCTOBER, 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 |
|-------------|--------|-------------|---------------------|---------------|---|-------------------------------|-----------------------|--------------------------|--|
| 153 | 961004 | S | 0.0 | B | 4 | N/A | HA | VALVEX | REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING. |
| 154 | 961011 | S | 0.0 | B | 4 | N/A | HA | VALVEX | REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING. |
| 155 | 961018 | S | 0.0 | B | 4 | N/A | RB | CONROD | REACTOR POWER WAS REDUCED TO 92% DUE TO CONTROL ROD PATTERN ADJUSTMENT AND MAIN TURBINE VALVE TESTING. |
| 156 | 961022 | F | 0.0 | A | 4 | N/A | HA | TURBIN | REACTOR POWER WAS REDUCED TO 90% DUE TO A MAIN TURBINE FRONT STANDARD OIL LEAK. |
| 157 | 961025 | 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
October 1 through October 31, 1996

I. Narrative Summary of Operating Experiences

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

On October 4, 1996 at 2300 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP on October 5, 1996 at 0017 hours.

On October 6, 1996 at 0358 hours, power was reduced to 59% RTP for a Generator Stator Cooling Y-strainer replacement. Power was further reduced to 22% RTP and the main turbine was tripped at 0918 hours. The main turbine was synchronized to the grid at 1348 and power was restored to 100% RTP on October 7, 1996 at 1057 hours.

On October 9, 1996 at 1207 hours, power was reduced to 94% RTP for removal of the 6th feedwater heaters from service. Power was restored to 100% RTP at 1341 hours.

On October 12, 1996 at 2305 hours, power was reduced to 83% RTP for condensate pump motor repair work. Power was further reduced to 55% RTP to remove a reactor feed pump. Power was restored to 100% RTP on October 17, 1996 at 0102 hours.

On October 18, at 2015 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2105 hours.

On October 25, 1996 at 2230 hours, power was reduced to 98% RTP for main turbine valve testing. Power was restored to 100% RTP at 2330 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 October.

AVERAGE DAILY POWER LEVEL

DOCKET NO. 50 - 353
 UNIT LIMERICK UNIT 2
 DATE NOVEMBER 13, 1996
 COMPANY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

MONTH OCTOBER, 1996

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

| | |
|----|------|
| 1 | 1120 |
| 2 | 1122 |
| 3 | 1126 |
| 4 | 1127 |
| 5 | 1122 |
| 6 | 434 |
| 7 | 1023 |
| 8 | 1123 |
| 9 | 1107 |
| 10 | 1117 |
| 11 | 1117 |
| 12 | 1108 |
| 13 | 708 |
| 14 | 656 |
| 15 | 777 |
| 16 | 793 |

DAY AVERAGE DAILY POWER LEVEL
(MWE-NET)

| | |
|----|------|
| 17 | 1100 |
| 18 | 1107 |
| 19 | 1115 |
| 20 | 1115 |
| 21 | 1114 |
| 22 | 1112 |
| 23 | 1110 |
| 24 | 1111 |
| 25 | 1114 |
| 26 | 1111 |
| 27 | 1105 |
| 28 | 1108 |
| 29 | 1112 |
| 30 | 1105 |
| 31 | 1112 |

OPERATING DATA REPORT

DOCKET NO. 50 - 353
 DATE NOVEMBER 13, 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: OCTOBER, 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 DROPS
 GREATER THAN 20% THIS MONTH
 DUE TO GENERATOR STATOR
 COOLING REPAIR AND CONDENSATE
 PUMP VIBRATIONS.

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 | 745 | 7,320 | 59,736 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 745.0 | 7,297.0 | 54,829.8 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 740.5 | 7,227.2 | 53,819.0 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 2,417,165 | 24,705,711 | 173,051,444 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 801,600 | 8,212,200 | 57,290,080 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 774,572 | 7,941,540 | 55,245,171 |

OPERATING DATA REPORT (CONTINUED)

DOCKET NO. 50 - 353

DATE NOVEMBER 13, 1996

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|--|------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 99.4 % | 98.7 % | 90.1 % |
| 20. UNIT AVAILABILITY FACTOR | 99.4 % | 98.7 % | 90.1 % |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 93.2 % | 97.3 % | 86.3 % |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 93.2 % | 97.3 % | 86.3 % |
| 23. UNIT FORCED OUTAGE RATE | .6 % | 1.3 % | 3.1 % |
| 24. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE AND DURATION OF EACH): REFUELING OUTAGE SCHEDULED FOR 1/24/97 LASTING 25 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 NOVEMBER 13, 1996
 COMPLETED BY PECO ENERGY COMPANY
 DAVID R. HENRICKS
 REPORTS ENGINEER
 SITE ENGINEERING
 LIMERICK GENERATING STATION
 TELEPHONE (610) 718-3772

REPORT MONTH OCTOBER, 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 |
|-------------|--------|-------------|---------------------|---------------|---|-------------------------------|-----------------------|--------------------------|--|
| 144 | 961004 | S | 0.0 | B | 4 | N/A | HA | VALVEX | REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING. |
| 145 | 961006 | F | 4.5 | A | 4 | N/A | HA | FILTER | REACTOR POWER WAS REDUCED TO 22% DUE TO REPLACEMENT OF THE GENERATOR STATOR COOLING "Y" STRAINER. |
| 146 | 961009 | S | 0.0 | H | 4 | N/A | CH | HTEXCH | REACTOR POWER WAS REDUCED TO 94% DUE TO REMOVAL OF SIXTH FEEDWATER HEATERS FROM SERVICE FOR COASTDOWN. |
| 147 | 961012 | F | 0.0 | A | 4 | N/A | HH | PUMPXX | REACTOR POWER WAS REDUCED TO 55% DUE TO REMOVAL OF A REACTOR FEED PUMP AND A CONDENSATE PUMP CAUSED BY VIBRATION PROBLEMS. |
| 148 | 961018 | S | 0.0 | B | 4 | N/A | HA | VALVEX | REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING. |
| 149 | 961025 | S | 0.0 | B | 4 | N/A | HA | VALVEX | REACTOR POWER WAS REDUCED TO 98% DUE TO MAIN TURBINE VALVE TESTING. |
| TOTAL HOURS | | | 4.5 | | | | | | |

(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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 EVENT REPORT (LER)
 FILE (NUREG-0161)

(5)
 EXHIBIT I - SAME SOURCE