

Docket No. #50-352
Attachment to Monthly
Operating Report for
April 1992

LIMERICK GENERATING STATION
UNIT 1
APRIL 1 THROUGH APRIL 30, 1992

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 1 was in the fourth refuel outage throughout the month. On Friday, April 10, Unit 1 reactor core offload was completed to support shuffling of control rod blades, HCU and CRD maintenance, replacement of all LPRM strings and maintenance and testing on Emergency Core Cooling Systems. On Tuesday, April 28, Unit 1 entered OPCON 5 and began reactor core reload. Unit 1 ended this reporting period on day 42 of the Refueling Outage with reactor core reload in progress.

Operational events that occurred during the month of April included:

The 'B' ESW loop was declared Inoperable to support isolation valve installation on the 'B' loop ESW piping in the Unit 1 HPCI room. Upon completion of valve installation and testing on Monday, April 27 (54 hours and 55 minutes had elapsed) 'B' ESW was declared operable.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

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

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 352
UNIT LIMERICK UNIT 1
DATE MAY 8, 1992
COMPANY PHILADELPHIA ELECTRIC COMPAN
KARL MECK
REPORT'S SUPERVISOR
BUSINESS UNIT
LIMERICK GENERATING STATION
TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH APRIL 1992

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|--|-----|--|
| 1 | 0 | 17 | 0 |
| 2 | 0 | 18 | 0 |
| 3 | 0 | 19 | 0 |
| 4 | 0 | 20 | 0 |
| 5 | 0 | 21 | 0 |
| 6 | 0 | 22 | 0 |
| 7 | 0 | 23 | 0 |
| 8 | 0 | 24 | 0 |
| 9 | 0 | 25 | 0 |
| 10 | 0 | 26 | 0 |
| 11 | 0 | 27 | 0 |
| 12 | 0 | 28 | 0 |
| 13 | 0 | 29 | 0 |
| 14 | 0 | 30 | 0 |
| 15 | 0 | | |
| 16 | 0 | | |

OPERATING DATA REPORT

3923029410

DOCKET NO. 50 - 352

DATE MAY 8, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

OPERATING STATUS

- 1. UNIT NAME: LIMERICK UNIT 1
- 2. REPORTING PERIOD: APRIL, 1992
- 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: THE UNIT WAS IN A REFUEL
 OUTAGE THE ENTIRE PERIOD.

- 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 | 719 | 2,903 | 54,743 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 0 | 1,910.2 | 43,219.0 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 0.0 | 1,903.9 | 42,345.8 |
| 15. UNIT RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY GENERATED (MWH) | 0 | 6,163,245 | 128,152,161 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 0 | 2,033,300 | 41,534,240 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | * -878 | 1,960,170 | 39,771,626 |

DATE MAY 8, 1992

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|--|------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 0.0 | 65.6 | 77.4 |
| 20. UNIT AVAILABILITY FACTOR | 0.0 | 65.6 | 77.4 |
| 21. UNIT CAPACITY FACTOR (USING GC NET) | 0.0 | 64.0 | 68.9 |
| 22. UNIT CAPACITY FACTOR (USING JFR NET) | 0.0 | 64.0 | 68.9 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 0.3 | 4.3 |

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
4TH REF. FUELING OUTAGE: 03/21/92; 70 DAYS

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 | MIL APRIL 85 | 4/13/85 |
| COMMERCIAL OPERATION | 1ST QTR 86 | 7/01/86 |

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50 - 352

UNIT NAME LIMERICK UNIT 1

DATE MAY 8, 1992

REPORT MONTH: APRIL, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1200 EXTENSION 2320

| 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 |
|-----|--------|-------------|----------------------------|---------------|---|-------------------------------|-----------------------|--------------------------|--|
| 13 | 920401 | S | 719.0 ----- 719.0 | C | 2 | N/A | ZZ | ZZZZZZ | THE UNIT REMAINED IN THE FOURTH REFUELING OUTAGE THE ENTIRE PERIOD. |

| | | | |
|-----------------------------|--|--|---|
| (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 |

Docket No. #50-353
Attachment to Monthly
Operating Report for
April 1992

LIMERICK GENERATING STATION
UNIT 2
APRIL 1 THROUGH APRIL 30, 1992

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 2 began the month of April at a nominal 100% of rated thermal power. On Wednesday, April 8, reactor power was briefly reduced to 90% to support a control rod pattern adjustment and Main Turbine Control valve testing. On Saturday April 25, reactor power was reduced to 95% to support isolation of a condenser waterbox because of a leaking condenser tube. On Sunday April 26, reactor power was returned to 100% of rated thermal power - adequate condenser vacuum was able to be maintained with one waterbox isolated. On Thursday April 30, reactor power was reduced to 98% of rated thermal power due to increasing turbine back pressure due to isolation of a main condenser waterbox. Unit 2 ended this operating period at 93% of rated thermal power.

Operational events that occurred during the month of April included:

The 'B' ESW loop was declared inoperable to support isolation valve installation on the 'B' loop ESW piping in the Unit 1 HPCI room. A one time revision to the ESW system Technical Specifications allowed a 72 hour relief from the ESW system Technical Specification 3.0.3 required shutdown with the 'B' loop of ESW inoperable. Upon completion of valve installation and testing on Monday, April 27 (54 hours and 55 minutes had elapsed) 'B' ESW was declared operable.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

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

AVERAGE DAILY UNIT POWER LEVEL

3923029410

DOCKET NO. 50 - 353

UNIT LIMERICK UNIT 2

DATE MAY 8, 1962

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH APRIL 1962

| DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) | DAY | AVERAGE DAILY POWER LEVEL (MWE-NET) |
|-----|--|-----|--|
| 1 | 1052 | 17 | 1058 |
| 2 | 1052 | 18 | 1058 |
| 3 | 1062 | 19 | 1059 |
| 4 | 1060 | 20 | 1064 |
| 5 | 1067 | 21 | 1048 |
| 6 | 1059 | 22 | 1050 |
| 7 | 1056 | 23 | 1053 |
| 8 | 1051 | 24 | 1048 |
| 9 | 1059 | 25 | 1033 |
| 10 | 1053 | 26 | 1043 |
| 11 | 1056 | 27 | 1051 |
| 12 | 1059 | 28 | 1051 |
| 13 | 1061 | 29 | 1051 |
| 14 | 1064 | 30 | 1050 |
| 15 | 1059 | | |
| 16 | 1063 | | |

OPERATING DATA REPORT

3923029410

DOCKET NO. 50 - 353

DATE MAY 8, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1200 EXTENSION 3320

OPERATING STATUS

- 1. UNIT NAME. LIMERICK UNIT 2
- 2. REPORTING PERIOD: APRIL, 1992
- 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
 REDUCTIONS GREATER THAN
 20% DURING THE 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 | 719 | 2,903 | 20,255 |
| 12. NUMBER OF HOURS REACTOR WAS CRITICAL | 719.0 | 2,903.0 | 17,491.0 |
| 13. REACTOR RESERVE SHUTDOWN HOURS | 0.0 | 0.0 | 0.0 |
| 14. HOURS GENERATOR ON-LINE | 719.0 | 2,903.0 | 17,002.2 |
| 15. UNIT RESERVE SHUTDOWN HOURS | | 0.0 | 0.0 |
| 16. GROSS THERMAL ENERGY PRODUCED (MWH) | 2,365,778 | 9,531,396 | 54,772,792 |
| 17. GROSS ELECTRICAL ENERGY GENERATED (MWH) | 788,760 | 3,179,080 | 18,110,716 |
| 18. NET ELECTRICAL ENERGY GENERATED (MWH) | 758,412 | 3,065,276 | 17,439,141 |

DATE MAY 8, 1992

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|--|------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 100.0 | 100.0 | 83.9 |
| 20. UNIT AVAILABILITY FACTOR | 100.0 | 100.0 | 83.9 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 100.0 | 100.1 | 81.6 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 100.0 | 100.1 | 81.6 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 0.0 | 4.9 |

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

3923029410

UNIT NAME LIMERICK UNIT 2

DATE MAY 8, 1992

REPORT MONTH APRIL, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
 REPORTS SUPERVISOR
 BUSINESS UNIT
 LIMERICK GENERATING STATION
 TELEPHONE (215) 327-1200 EXTENSION 3320

| NO. | DATE | TYPE (1) | DURATION (HOURS) (1) | REASON (2) | METHOD OF SHUTTING DOWN REACTOR (3) | LICENSEE EVENT REPORT # | SYSTEM CODE (4) | COMPONENT CODE (5) | CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE |
|-----|--------|-------------|----------------------------|---------------|---|-------------------------------|-----------------------|--------------------------|--|
| 9 | 920408 | S | 000.0 | B | 4 | N/A | RB | CONROD | LOAD WAS REDUCED 10% FOR CONTROL ROD PATTERN ADJUSTMENT AND TURBINE CONTROL ROD VALVE TESTING. |
| 10 | 920425 | F | 000.0 | A | 4 | N/A | HC | PIPEXX | LOAD WAS REDUCED 5% TO SUPPORT ISOLATION OF A CONDENSER WATERBOX BECAUSE OF A LEAKING MAIN CONDENSER TUBE. |
| 11 | 920430 | F | 000.0 | H | 4 | N/A | HC | TURBIN | LOAD WAS REDUCED 2% DUE TO INCREASING TURBINE BACK PRESSURE BECAUSE OF THE ISOLATION OF THE MAIN CONDENSER WATERBOX. |

(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)

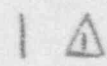
EXHIBIT G - INSTRUCTIONS
 FOR PREPARATION OF DATA
 ENTRY SHEETS / LICENSEE
 EVENT REPORT (ER)
 FILE (NUREG-0161)

(5)

EXHIBIT I - SAME SOURCE

DATE APRIL 10, 1992

| | THIS MONTH | YR-TO-DATE | CUMULATIVE |
|--|------------|------------|------------|
| 19. UNIT SERVICE FACTOR | 63.2 | 87.2 | 79.4 |
| 20. UNIT AVAILABILITY FACTOR | 83.2 | 87.2 | 78.4 |
| 21. UNIT CAPACITY FACTOR (USING MDC NET) | 62.0 | 85.1 | 69.8 |
| 22. UNIT CAPACITY FACTOR (USING DER NET) | 62.0 | 85.1 | 69.8 |
| 23. UNIT FORCED OUTAGE RATE | 0.0 | 0.3 | 4.3 |



24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
 4TH REFUELING OUTAGE; 03/21/92; 70 DAYS

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 |