

PHILADELPHIA ELECTRIC COMPANY

LIMERICK GENERATING STATION

P. O. BOX 2300

POTTSTOWN, PA 19464-0920

(215) 327-1200, EXT. 3000

January 10, 1991

GRAHAM M. LEITCH
VICE PRESIDENT
LIMERICK GENERATING STATION

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 December, 1991 forwarded pursuant to
Technical Specification 6.9.1.6.

Very truly yours,



KWM/dms

Enclosure

cc: T. T. Martin, Administrator, Region I, USNRC
T. J. Kenny, USNRC Senior Resident Inspector

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DATE 01/10/92 10:38

NRMS DOCUMENT CONTROL FORM

SEQUENCE # 3921001440

NRC MONTHLY OPERATING REPORT

STATION LGS

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*MGR LIMERICK          LGS/A5-1      01 I**CORRESP RELEASE PT  LGS/340      01 I*
*SR. VP NUC            CB/52C-7      01 I**DEPT ENVIR RES - PA  OUTGOING      01 I*
*VP. LIMERICK          LGS-200      01 I**DIR. LICENSING SECT  CB/52A-5      01 I*
*VP. NUC ENG/SERVICES  CB/63C-1      01 I**INPO                OUTGOING      01 I*
*VP. PBAPS             PR/SMD-1      01 I**LGS ENGR. TECHNICAL  LGS/C4-1      01 I*
*MGR. INSURANCE DIV.   MO/S15-3      01 I**HARTFIELD, R.        OUTGOING      01 I*
*MGR. NUC ADMIN DIV    CB-51A-13     01 I**MGR. PUBLIC INFO    MO/S13-1      01 I*
*MGR. QA PERF ASSESS  CB/53A-1      01 I**REGULATORY ENGR-LGS  LGS/SB3-4     01 I*
*MGR. KATE DIV         MO/S21-1      01 I**REPORTING SUPVR.-LGS  LGS/338       01 I*
*NRC RES OFFICE        LGS/A2-5      01 I**SHERMAN, D.          OUTGOING      01 I*
*SUPT. ISEC - LGS      LGS/336      01 I**MGR. FUEL MGMT       CB/52A-3      01 I*
*ASST. OPER. ENGR.     LGS/A5-1      01 I**YOST, F.             OUTGOING      01 I*
*BHATTACHARYYA, A.     LGS/335      01 I**-----*
*BUSINESS UNIT         CB/52B-7      01 I**-----*
*BUTROVICH, R. M.      LGS-17       01 I**-----*
*COLTER, S.            OUTGOING      01 I**-----*
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REQUESTS FOR CHANGES TO THIS DISTRIBUTION LIST MUST BE ADDRESSED TO THE ORGANIZATION RESPONSIBLE FOR ORIGINATING THE ATTACHED DOCUMENT; (SEE NUCLEAR RELATED DOCUMENT REGISTER (NRDR) FOR RESP. ORG.). THE RESP. ORG. WILL AUTHORIZE THE LOCAL DAC SUPERVISOR TO MAKE THE NECESSARY CHANGES.

ATTACHED IS A COPY OF:

DOCTYPE NRC MONTHLY OPERATING REPORT

DATE 01/10/92

MAKE TWO ADDITIONAL COPIES: 1 - T.T. MARTIN, 1 - NRMS

JMM
1/10/92

Docket No. #50-352
Attachment to Monthly
Operating Report for
December 1991

LIMERICK GENERATING STATION
UNIT 1
DECEMBER 1 THROUGH DECEMBER 31, 1991

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 1 began the month of December at a nominal 100% of rated thermal power. On Tuesday, December 10, reactor power was briefly reduced to 97% of rated to facilitate a control rod pattern adjustment. Reactor power was briefly reduced to approximately 90% on December 13 for main turbine control valve testing. On December 14, reactor power was reduced to 70% to perform control valve/bypass valve testing and individual control rod scram time testing. On December 18 at 1745 hours, reactor power was reduced to commence a shutdown required to repair the High Pressure Coolant Injection (HPCI) system inboard steam supply isolation valve motor operator. At 1955 hours, the Unit 1 mode switch was taken to SHUTDOWN from approximately 26% power. On December 19 at 1345 hours, OPCON 4 was entered and maintenance activities began on the HPCI valve. On December 30 at 1154 hours, OPCON 2 (STARTUP) was entered and the reactor achieved criticality at 1614 hours. The startup continued and on December 31 at 2115 hours, OPCON 1 was entered with the reactor at 15% thermal power. Unit 1 ended this operating period at a nominal 15% of rated thermal power.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 352

UNIT LIMERICK UNIT 1

DATE JANUARY 6, 1992

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK

REPORTS SUPERVISOR

BUSINESS UNIT

LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH DECEMBER 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1049	17	1055
2	1051	18	828
3	1051	19	0
4	1054	20	0
5	1055	21	0
6	1050	22	0
7	1057	23	0
8	1050	24	0
9	1046	25	0
10	1053	26	0
11	1052	27	0
12	1056	28	0
13	1038	29	0
14	926	30	-
15	1057	31	0
16	1053		

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OPERATING DATA REPORT

DOCKET NO. 50 - 352

DATE JANUARY 6, 1992

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

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

OPERATING STATUS

- UNIT NAME: LIMERICK UNIT 1
- REPORTING PERIOD: DECEMBER, 1991
- LICENSED THERMAL POWER (MW): 3293
- NAMEPLATE RATING (GROSS MWE): 1138
- DESIGN ELECTRICAL RATING (NET MWE): 1055
- MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1092
- MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES: THE TURBINE WAS TRIPPED AND RX
SCRAMMED TO MEET TECH. SPEC.
COMPLIANCE DUE TO HPCI VALVE
PROBLEM. THERE WAS ONE
PREVIOUS LOAD DROP TO 70% FOR
CONTROL ROD TESTING.

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
744	8,760	51,840
459.7	8,177.2	41,308.8
0.0	0.0	0.0
427.9	8,044.9	40,441.9
0.0	0.0	0.0
1,402,697	25,906,784	121,988,916
462,290	8,455,040	39,500,940
443,037	8,133,849	37,811,456

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	THIS MONTH	VR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	57.5	91.8	78.0
20. UNIT AVAILABILITY FACTOR	57.5	91.8	78.0
21. UNIT CAPACITY FACTOR (USING MOC NET)	56.4	88.0	69.1
22. UNIT CAPACITY FACTOR (USING DER NET)	56.4	88.0	69.1
23. UNIT FORCED OUTAGE RATE	42.5	8.2	4.5
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:

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

DOCKET NO. 40 - 352

UNIT NAME LIMERICK UNIT 1

DATE JANUARY 6, 1992

REPORT MONTH DECEMBER, 1991

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
63	911210	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 3% FOR CONTROL ROD PATTERN ADJUSTMENT.
64	911213	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 8% FOR MAIN TURBINE CONTROL VALVE TESTING.
65	911214	S	000.0	B	4	N/A	RB	CONROD	LOAD WAS REDUCED 30% FOR CONTROL ROD SCRAM TIME TEST.
66	911218	F	284.3	A	2	1-91-029	SD	VALVOP	THE TURBINE WAS TRIPPED AND REACTOR SCRAMMED DUE TO MPC VALVE PROBLEMS.
67	911230	F	031.8	B	4	N/A	ZZ	ZZZZZZ	REACTOR CRITICAL AND STARTUP TESTING IN PROGRESS.

(1)

F - FORCED
S - SCHEDULED

(2)

REASON

A - EQUIPMENT FAILURE (EXPLAIN)
 B - MAINTENANCE OR TEST
 C - REFUELLING
 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)

EXHIBIT I - SAME SOURCE

Docket No. #50-353
Attachment to Monthly
Operating Report for
December 1991

LIMERICK GENERATING STATION
UNIT 2
DECEMBER 1 THROUGH DECEMBER 31, 1991

I. NARRATIVE SUMMARY OF OPERATING EXPERIENCES

Limerick Unit 2 began the month of December at a nominal 100% of rated thermal power. On Sunday, December 1, reactor power was briefly reduced to 90%, then 84% of rated at the load dispatcher's request for minimum generation to meet area interchange needs. Reactor power was restored to a nominal 100% by the end of the shift. On December 6, reactor power was reduced to 75% to perform a control rod pattern adjustment. Reactor power was returned to 100% at 0949 hours on December 7. Unit 2 ended this operating period at a nominal 100% of rated thermal power.

II. CHALLENGES TO MAIN STEAM SAFETY RELIEF VALVES

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

AVERAGE DAILY UNIT POWER LEVEL

3921001440

DOCKET NO. 85 - 353

UNIT LIMERICK UNIT 2

DATE JANUARY 6, 1992

COMPANY PHILADELPHIA ELECTRIC COMPANY

KARL MECK
REPORTS SUPERVISOR
BUSINESS UNIT
LIMERICK GENERATING STATION

TELEPHONE (215) 327-1200 EXTENSION 3320

MONTH DECEMBER 1991

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1029	17	1068
2	1066	18	1090
3	1064	19	1044
4	1067	20	1062
5	1067	21	1064
6	1034	22	1067
7	1009	23	1059
8	1064	24	1063
9	1107	25	1070
10	1025	26	1054
11	1065	27	1074
12	1070	28	1059
13	1064	29	1060
14	1063	30	1062
15	1074	31	1059
16	1063		

OPERATING DATA REPORT

3921001440

DOCKET NO. 50 - 353

DATE JANUARY 6, 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: DECEMBER, 19
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

REDUCTION TO 75% FOR CONTROL

ROD PATTERN ADJUSTMENT.

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	6,760	17,352
12. NUMBER OF HOURS REACTOR WAS CRITICAL	744.0	7,029.0	14,588.3
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	744.0	6,921.6	14,099.2
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,439,518	22,413,606	45,271,396
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	819,550	7,408,620	14,931,636
18. NET ELECTRICAL ENERGY GENERATED (MWH)	789,243	7,141,269	14,373,865

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DATE JANUARY 6, 1992

	THIS MONTH	VR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	79.0	81.3
20. UNIT AVAILABILITY FACTOR	100.0	79.0	81.3
21. UNIT CAPACITY FACTOR (USING MDC NET)	100.6	77.3	78.5
22. UNIT CAPACITY FACTOR (USING DER NET)	100.6	77.3	78.5
23. UNIT FORCED OUTAGE RATE	0.0	0.5	5.8
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

3921001440

UNIT NAME LIMERICK UNIT 2

DATE JANUARY 6, 1992

REPORT MONTH DECEMBER, 1991

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) (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
33	911201	S	000.0	H	4	N/A	ZZ	ZZZZZ	LOAD WAS REDUCED 16% PER LOAD DISPATCHER REQUEST.
34	911206	S	000.0	B	4	N/A	PR	CONROD	LOAD WAS REDUCED 25% FOR 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-D161)

(5)

EXHIBIT I - SAME SOURCE