PECO ENERGY

PECO Energy Company
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T.S.6.9.1.6

October 12, 1995

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 September 1995 forwarded pursuant to Technical Specification 6.9.1.6.

Very truly yours,

Michael P. Gallagher
Director - Site Engineering

drh

Enclosures

cc: T. T. Martin, 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
September 1 through September 30, 1995

I. Narrative Summary of Operating Experiences

Unit 1 began the month of September in operational condition 4, cold shutdown.

- On September 1, 1995 at 0403 hours, the mode switch was placed in startup and the Unit was critical at 0745 hours. At 1808 hours, the mode switch was placed in Run and the Unit was synchronized to the grid at 2200 hours on September 1, 1995.

- On September 2, 1995 at 0743 hours, a Unit shutdown commenced in accordance with Technical Specification 3.0.3 as a result of discovering that both Post-LOCA Hydrogen Recombiner systems were inoperable due to improper wiring of certain recorders during a recent recorder modification. The main turbine was removed from service at 1140 hours and the mode switch was placed in startup at 1409 hours. Power reduction continued to approximately 6.5% of RTP.

- On September 2, 1995 at 1950 and 2050 hours, the B and A Post-LOCA Recombiners were declared operable following corrective actions and testing. Control rod withdrawal commenced at 2110 hours and, at 2134 hours, the mode switch was placed in Run. The Unit was synchronized to the grid at 0113 hours on September 03, 1995. The Unit was restored to 100% RTP at 1900 hours on September 4, 1995.

- On September 5, 1995, at 2113 hours, power was reduced to 85% RTP for a control rod pattern adjustment. Power was restored to 100% RTP at 0030 hours on September 6, 1995.

- On September 11, 1995 at 1246 hours, power reduction commenced due to a failed open safety relief valve (SRV). At 1249 hours, the Unit was manually shutdown since the SRV failed to close. An Unusual Event was declared at 1250 hours since the SRV failed to close after reactor pressure was reduced. The SRV closed when reactor pressure reached approximately 407 psig. At 0227 hours on September 12, 1995, the Unusual Event was terminated when the B RHR shutdown cooling system was placed in service. The Unit entered operational condition 4, Cold Shutdown, at 0430 hours with reactor coolant temperature at 194 degrees F. During shutdown of the Unit, there were indications of RHR suppression pool suction strainer clogging. As a result, the suppression pool was inspected to determine the cause. The cause of the failed open safety relief valve and RHR suction strainer clogging were investigated and corrective actions taken. Five SRVs were replaced and the suppression pool was thoroughly cleaned.

- On September 22, 1995 at 1636 hours, the mode switch was placed in startup and the Unit was critical at 2105 hours. On September 24, 1995 at 0608 hours, the mode switch was placed in Run and the Unit was synchronized to the grid at 1501 hours on September 25, 1995, with power at 21% RTP. Power was restored to 100% RTP on September 27, 1995 at 1200 hours.

- On September 28, 1995 at 1242 hours, power was reduced to 90% RTP for a control rod pattern adjustment. Power was restored to 100% RTP at 1600 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 September.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 352
UNIT LIMERICK UNIT 1
DATE SEPTEMBER 11, 1995
COMPANY PECO ENERGY COMPANY

DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION

TELEPHONE (610) 718-3772

MONTH SEPTEMBER 1995

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	33	17	0
2	64	18	0
3	215	19	0
4	848	20	0
5	1024	21	0
6	1047	22	0
7	1038	23	0
8	1043	24	0
9	1038	25	46
10	1050	26	111
11	554	27	985
12	0	28	1040
13	0	29	1054
14	0	30	1055
15	0		
16	0		

OPERATING DATA REPORT

DOCKET NO. 50 - 352
DATE SEPTEMBER 11, 1995
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: SEPTEMBER, 1995
3. LICENSED THERMAL POWER(MWT): 3293
4. NAMEPLATE RATING (GROSS MWE): 1092
5. DESIGN ELECTRICAL RATING (NET MWE): 1055
6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): 1092
7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): 1055

NOTES: THERE WERE 2 LOAD DROPS GREATER THAN 20% THIS MONTH DUE TO THE POST-LOCA HYDROGEN RECOMBINER SYSTEMS BEING INOP. AND A FAILED OPEN SAFETY RELIEF VALVE (SRV).

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	6,551	84,695
12. NUMBER OF HOURS REACTOR WAS CRITICAL	440.0	5,906.4	70,014.7
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	346.3	5,765.4	68,790.9
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	969,710	18,589,822	212,906,360
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	305,900	6,048,200	69,232,480
18. NET ELECTRICAL ENERGY GENERATED (MWH)	290,765	5,833,216	66,477,222

DATE SEPTEMBER 11, 1995

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	48.1	88.0	81.2
20. UNIT AVAILABILITY FACTOR	48.1	88.0	81.2
21. UNIT CAPACITY FACTOR (USING MDC NET)	38.3	84.4	74.4
22. UNIT CAPACITY FACTOR (USING DER NET)	38.3	84.4	74.4
23. UNIT FORCED OUTAGE RATE	50.4	6.3	4.4

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

1. REFUELING OUTAGE, SCHEDULED FOR 1/26/96, LASTING 22 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

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH SEPTEMBER, 1995

DOCKET NO. 50 - 352
UNIT NAME LIMERICK UNIT 1
DATE SEPTEMBER 11, 1995
COMPLETED BY PECO ENERGY COMPANY
DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

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	
81	950901	S	022.0	A	2	1-95-006	CA	PIPEXX	REACTOR WAS IN A SHUTDOWN CONDITION (CONTINUED FROM AUGUST) DUE TO LEAKAGE INTO THE DRYWELL CAUSED BY A MISALIGNED REACTOR PRESSURE VESSEL INSTRUMENT FLANGE CONNECTION.	4 4 4 4 4
82	950902	F	013.5	A	4	1-95-007	SE	RECOMB	REACTOR POWER WAS REDUCED TO 6.5% DUE TO BOTH POST-LOCA HYDROGEN RECOMBINER SYSTEMS WERE INOPERABLE.	4 4 4
83	950905	S	000.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 85% DUE TO CONTROL ROD PATTERN ADJUSTMENT.	4 4
84	950911	F	338.2	A	2	1-95-008	CC	VALVEX	REACTOR WAS SHUTDOWN DUE TO A FAILED OPEN SAFETY RELIEF VALVE(SRV).	4 4
85	950928	S	000.0	B	4	N/A	RB	CONROD	REACTOR POWER WAS REDUCED TO 90% DUE TO CONTROL ROD PATTERN ADJUSTMENT.	4 4 4 4
			373.7							

(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
September 1995

Limerick Generating Station
Unit 2
September 1 through September 30, 1995

I. Narrative Summary of Operating Experiences

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

- On September 2, 1995 at 1145 hours, a shutdown of the Unit commenced in accordance with Technical Specification 3.0.3 as a result of discovering that a Post-LOCA Hydrogen Recombiner system was inoperable for greater than Technical Specification limits due to improper wiring of certain recorders during a recent recorder modification. Power reduction continued until 1500 hours and power level at 37% of RTP.

- On September 2, 1995 at 1824 hours, the Post-LOCA recombiner was declared operable following corrective actions and testing. Power ascension commenced at 1932 hours and was restored to 100% RTP at 1522 hours on September 3, 1995.

- On September 5, 1995 at 0936 hours, power was reduced to 90% RTP to remove the 6C feedwater heater from service to repair a steam leak on an extraction steam bleeder trip valve. The 6C feedwater heater was removed from service at 1220 hours and power was restored to 100% RTP shortly thereafter.

- On September 17, 1995 at 0115 hours, power was reduced to 90% RTP for main turbine valve testing. Power was restored to 100% RTP at 0430 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 September.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50 - 353
UNIT LIMERICK UNIT 2
DATE SEPTEMBER 11, 1995
COMPANY PECO ENERGY COMPANY

DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION

TELEPHONE (610) 718-3772

MONTH SEPTEMBER 1995

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	1098	17	1109
2	828	18	1119
3	1086	19	1123
4	1114	20	1119
5	1098	21	1115
6	1108	22	1111
7	1110	23	1125
8	1115	24	1122
9	1119	25	1122
10	1123	26	1123
11	1136	27	1126
12	1108	28	1130
13	1128	29	1129
14	1096	30	1129
15	1108		
16	1117		

OPERATING DATA REPORT

DOCKET NO. 50 - 353
DATE SEPTEMBER 11, 1995
COMPLETED BY PECO ENERGY COMPANY

DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
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OPERATING STATUS

1. UNIT NAME: LIMERICK UNIT 2
2. REPORTING PERIOD: SEPTEMBER, 1995
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 WAS 1 LOAD DROP GREATER THAN 20% THIS MONTH DUE TO THE POST-LOCA HYDROGEN RECOMBINER SYSTEM BEING INOPERABLE.

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	6,551	50,207
12. NUMBER OF HOURS REACTOR WAS CRITICAL	720.0	5,960.8	45,323.8
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	720.0	5,789.1	44,394.0
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MWH)	2,463,382	18,581,479	140,811,062
17. GROSS ELECTRICAL ENERGY GENERATED (MWH)	826,900	6,145,600	46,529,180
18. NET ELECTRICAL ENERGY GENERATED (MWH)	796,688	5,928,332	44,830,532

DATE SEPTEMBER 11, 1995

	THIS MONTH	YR-TO-DATE	CUMULATIVE
19. UNIT SERVICE FACTOR	100.0	88.4	88.4
20. UNIT AVAILABILITY FACTOR	100.0	88.4	88.4
21. UNIT CAPACITY FACTOR (USING MDC NET)	99.2	81.5	84.1
22. UNIT CAPACITY FACTOR (USING DER NET)	99.2	81.5	84.1
23. UNIT FORCED OUTAGE RATE	0.0	2.5	3.3

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	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

REPORT MONTH SEPTEMBER, 1995

DOCKET NO. 50 - 353
UNIT NAME LIMERICK UNIT 2
DATE SEPTEMBER 11, 1995
COMPLETED BY PECO ENERGY COMPANY

DAVID R. HENRICKS
REPORTS ENGINEER
SITE ENGINEERING
LIMERICK GENERATING STATION
TELEPHONE (610) 718-3772

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	
72	950902	F	000.0	A	4	1-95-007	SE	RECOMB	REACTOR POWER WAS REDUCED TO 37% UPON DISCOVERING A POST-LOCA HYDROGEN RECOMBINER SYSTEM WAS INOPERABLE.	4 4 4
73	950905	F	000.0	A	4	N/A	CH	HTEXCH	REACTOR POWER WAS REDUCED TO 90% TO REPAIR STEAM LEAK ON THE 6C FEEDWATER HEATER.	4 4 4
74	950917	S	000.0	B	4	N/A	HA	VALVEX	REACTOR POWER WAS REDUCED TO 90% DUE TO MAIN TURBINE VALVE TESTING.	4 4 4 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