

OPERATING DATA REPORT

DOCKET NO. 50 - 352

DATE JANUARY 15, 1986

COMPLETED BY PHILADELPHIA ELECTRIC COMPANY

W.M. ALDEN
ENGINEER-IN-CHARGE
LICENSING SECTION
NUCLEAR GENERATION DIVISION
TELEPHONE (215) 841-5022

OPERATING STATUS

- | | | | | |
|---|--|--|------------------------------------|--|
| 1. UNIT NAME: LIMERICK UNIT 1 | | | NOTES: THE UNIT CONTINUES IN START | |
| 2. REPORTING PERIOD: DECEMBER, 1985 | | | UP TESTING AND INCURRED TWO | |
| 3. LICENSED THERMAL POWER (MWT): 3293 | | | SCHEDULED LOAD REDUCTIONS, | |
| 4. NAMEPLATE RATING (GROSS MWE): 1092 | | | ONE AUTO SCRAM, AND ONE | |
| 5. DESIGN ELECTRICAL RATING (NET MWE): 1055 | | | MANUAL SCRAM FOR TESTING. | |
| 6. MAXIMUM DEPENDABLE CAPACITY (GROSS MWE): - | | | | |
| 7. MAXIMUM DEPENDABLE CAPACITY (NET MWE): - | | | | |
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	6,297	6,297
12. NUMBER OF HOURS REACTOR HAS CRITICAL	678.8	4,462.2	4,499.9
13. REACTOR RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
14. HOURS GENERATOR ON-LINE	605.3	2,554.6	2,554.6
15. UNIT RESERVE SHUTDOWN HOURS	0.0	0.0	0.0
16. GROSS THERMAL ENERGY GENERATED (MMB)	1,609,790	4,569,517	4,569,517
17. GROSS ELECTRICAL ENERGY GENERATED (MMB)	509,710	1,253,547	1,253,547
18. NET ELECTRICAL ENERGY GENERATED (MMB)	486,808	1,136,630	1,136,630
19. UNIT SERVICE FACTOR	81.4	29.2	26.9

20. UNIT AVAILABILITY FACTOR	81.4	29.2	26.9
21. UNIT CAPACITY FACTOR (USING MDC NET)	*	*	*
22. UNIT CAPACITY FACTOR (USING DER NET)	*	*	*
23. UNIT FORCED OUTAGE RATE	0.0	0.0	0.0

24. SHUTDOWNS SCHEDULED OVER NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
 UNIT #1 IN STARTUP TESTING.

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	

* NOT APPLICABLE PRIOR TO COMMERCIAL OPERATION

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 1-0 - 352

UNIT LIMERICK UNIT 1

DATE JANUARY 15, 1986

COMPANY PHILADELPHIA ELECTRIC COMPANY

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MONTH DECEMBER 1985

DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)	DAY	AVERAGE DAILY POWER LEVEL (MWE-NET)
1	683	17	695
2	827	18	598
3	852	19	0
4	947	20	0
5	864	21	0
6	669	22	232
7	660	23	765
8	319	24	986
9	0	25	983
10	62	26	1038
11	635	27	1055
12	692	28	1035
13	705	29	943
14	707	30	1025
15	705	31	1034
16	701		

UNIT SHUTDOWNS AND POWER REDUCTIONS

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UNIT NAME LIMERICK UNIT 1

DATE JANUARY 15, 1986

REPORT MONTH DECEMBER, 1985

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DATE	(1) TYPE	(2) DURATION (HOURS)	(3) REASON	(4) METHOD OF SHUTTING DOWN REACTOR	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
851205	S	000.0	B	4	NA	EB	XXXXXX	REDUCED POWER FROM 95% TO 68% TO MAINTAIN A SMALLER AMPERAGE FIELD ON THE MAIN ELECTRICAL GENERATOR UNTIL ISOPHASE DUCT TEMPERATURE CAN BE RESOLVED. REDUCED POWER FROM 12/5 TO 12/24.
851208	F	049.6	A	3	85-95	HA	MECFUN	WHILE RESETTING A SCOOP TUBE LOCK ON THE 'B' MG SET, THE SCOOP TUBE POSITIONER DID NOT RESPOND TO DEMAND SIGNAL, IMMEDIATELY INCREASING RECIRC PUMP SPEED AT A RAPID RATE, RESULTING IN A HIGH FLUX CONDITION WITHIN A SHORT TIME. A DEVIATION METER WAS INSTALLED WHICH PROVIDES A TIE BETWEEN A SCOOP TUBE POSITIONER SIGNAL AND THE MG SET SPEED DEMAND SIGNAL.
851218	S	089.1	B	4	NA	ZZ	ZZZZZZ	SCRAM INITIATED FROM MAIN STEAM ISOLATION VALVE CLOSURE PER STP 25-3 TO DEMONSTRATE REACTOR'S TRANSIENT BEHAVIOR THAT RESULTS FROM THE SIMULTANEOUS FULL CLOSURE OF ALL MSIV'S NEAR 100% POWER.

(1)

(2)

(3)

(4)

- FORCED
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

UNIT SHUTDOWNS AND POWER REDUCTIONS

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UNIT NAME LIMERICK UNIT 1

DATE JANUARY 15, 1986

REPORT MONTH DECEMBER, 1985

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DATE	(1)	(HOURS)	(2)	METHOD OF SHUTTING DOWN REACTOR (3)	LICENSEE EVENT REPORT #	SYSTEM CODE (4)	COMPONENT CODE (5)	CAUSE AND CORRECTIVE ACTION TO PREVENT RECURRENCE
851228	S	000.0	B	4	NA	ZZ	ZZZZZZ	CHANGED POWER FROM 95% TO 70% TO 80% TO 90% PER ST. 23.6 WHICH DETERMINES THE SENSITIVITY OF REACTOR FEED PUMP FLOW TO RFP TURBINE SPEED, AND RFP TURBINE SPEED TO REACTOR PRESSURE.
		138.7						

(1)

(2)

(3)

(4)

- FORCED
- SCHEDULED

REASON
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B - MAINTENANCE OR TEST
C - REFUELING
D - REGULATORY RESTRICTION
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METHOD
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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 1
December 1 through December 31, 1985

I. Narrative Summary of Operating Experiences

The unit began the month at approximately 70% power.

On December 5, at 95% power, excessive isophase bus duct temperatures were discovered and power was reduced to 68%.

On December 8, the "B" Recirculation Pump speed demand meter was observed to be off-scale (reading low). After locking up the scoop tube for investigation, the scoop tube lock was reset, resulting in a rapid speed increase, causing an Average Power Range Monitor (APRM) Hi Flux Scram. With the generator off-line, isophase bus duct minor modifications were completed including installation of temporary cooling fans.

Unit startup began on December 9 and the turbine-generator was synchronized the same day. On December 12, power was increased incrementally to monitor bus duct temperatures. At 82% power, the maximum bus duct temperatures were observed and power was immediately reduced to and maintained at 70% pending new bus duct installation.

On December 18, power was increased to 91% briefly to support the full Main Steam Isolation Valve (MSIV) closure (Startup Procedure 25-3). This resulted in an anticipated scram.

Startup recommenced on December 19. Power was maintained at 10-15% on bypass valves while the new portions of isophase bus duct were installed. On December 22, the turbine-generator was synchronized and power ascension to 95% began. After setting the recirculation pump motor/generator set scoop tube electrical and mechanical stops, reactor power was increased to 100% (3291 MWt, 1114 MWe) on December 26, 1985.

The unit ended the report period at approximately 98% power.

II. Challenges to Relief Valves

During this month, there were no challenges to the main steam system safety-relief valves.

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RELATED CORRESPONDENCE

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET
P.O. BOX 8699
PHILADELPHIA, PA. 19101
(215) 841-4000



January 15, 1986

Docket No. 50-352 *OL*

Director
Office of Resource Management
US Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Limerick Generating Station
Monthly Operating Report

Gentlemen:

Enclosed is the monthly operating report for Limerick Unit 1 for the month of December, 1985 forwarded pursuant to Technical Specification 6.9.1.6.

Very truly yours,

R. H. Logue
Superintendent
Nuclear Services

Attachment

- cc: Director, Office of Inspection & Enforcement, USNRC (12 copies)
- Dr. T. E. Murley, NRC
- Mr. David E. Ney, PA Dept. of Envir. Resources
- Mr. P. A. Ross, NRC (2 copies)
- INPO Records Center
- See Attached Service List

~~DS02~~

cc: Troy B. Conner, Jr., Esq.
Ann P. Hodgdon, Esq.
Mr. Frank R. Romano
Mr. Robert L. Anthony
Ms. Phyllis Zitzer
Charles W. Elliott, Esq.
Zori G. Ferkin, Esq.
Mr. Thomas Gerusky
Director, Penna. Emergency Management Agency
Angus Love, Esq.
David Wersan, Esq.
Robert J. Sugarman, Esq.
Kathryn S. Lewis, Esq.
Spence W. Perry, Esq.
Jay M. Gutierrez, Esq.
Atomic Safety & Licensing Appeal Board
Atomic Safety & Licensing Board Panel
Docket & Service Section (3 Copies)
E. M. Kelly
Timothy R. S. Campbell

September, 1985