LASALLE NUCLEAR POWER STATION

UNIT 1

MONTHLY PERFORMANCE REPORT

MARCH 1989

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. 050-373

LICENSE NO. NPF-11

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I. INTRODUCTION

The LaSalle County Nuclear Power Station is a two-unit facility owned by Commonwealth Edison Company and located near Marseilles, Illinois. Each unit is a Boiling Water Reactor with a designed net electrical output of 1078 Megawatts. Waste heat is rejected to a man-made cooling pond using the Illinois River for make-up and blowdown. The architect-engineer was Sargent and Lundy and the primary construction contractor was Commonwealth Edison Company.

Unit One was issued operating license number NPF-11 on April 17, 1982. Initial criticality was achieved on June 21, 1982 and commercial power operation was commenced on January 1, 1984.

This report was compiled by John W. Thunstedt, telephone number (815)357-6761, extension 2463.

II. MONTHLY REPORT

A. SUMMARY OF OPERATING EXPERIENCE

Day	Time	Event
1	0000	Reactor critical, generator on-line, 960 MWE.
2	2302	Reactor scram, turbine trip, due to fault of U-2 SAT lightning arrestor.
6	0042	Reactor critical.
	1055	Generator on-line, ramping to 1050 MWE.
8	2200	Reduced load to 600 MWE for rod-set.
9	0030	Ramping to 1130 MWE.
31	2400	Reactor critical, generator on-line, 1080 MWE.

B. PLANT OR PROCEDURE CHANGES, TESTS, EXPERIMENTS AND SAFETY RELATED MAINTENANCE.

1. Amendments to the Facility License or Technical Specification.
(None)

2. Changes to procedures which are described in the Safety Analysis Report.
(None)

3. Tests and Experiments not described in the Safety Analysis Report.
(None)

4. Major corrective maintenance to Safety-Related Equipment.
(See Table 1)

5. Completed Safety-Related Modifications.
(None)

B.4 TABLE 1

MAJOR CORRECTIVE MAINTENANCE TO
SAFETY-RELATED EQUIPMENT

WORK REQUEST NUMBER	COMPONENT	CAUSE OF MALFUNCTION	RESULTS AND EFFECTS ON SAFE PLANT OPERATION	CORRECTIVE ACTION
(UNIT 0)				
L83707	"0" D/G Air-Start Regulators	Ruptured diaphram	Slight leak-through, no significant operational effect	Replaced valves.
(UNIT 1)				
L83949	Div I Battery Cell #8	Low Specific Gravity	(None)	Replaced Cell
L88050	HCU 42-27 Charging Water Check Valve	Missing internal component (ball)	CRD Inoperable	Replaced missing ball

C. LICENSEE EVENT REPORTS

LER Number	Date	Description
89-009-00	03/02/89	Reactor Scram Due to Loss of Transformer 242/Fault in Lightning Arrestor.
89-010-00	03/03/89	Reactor Vessel Low Water Level Confirmed ADS/Setpoint Draft
89-011-00	03/04/89	HPCS System Inoperable
89-012-00	03/09/89	RCIC Hi Steam Flow Isolation SOR Failure
89-013-00	03/31/89	Suppression Pool Hi Level Alarm Setpoint Non-conservative

D. DATA TABULATIONS

1. Operating Data Report (attached)
2. Average Daily Unit Power Level (attached)
3. Unit Shutdowns and Power Reductions (attached)

D.1 OPERATING DATA REPORT

DOCKET NO. 050-373
UNIT LASALLE ONE
DATE April 10, 1989
COMPLETED BY J.W. THUNSTEDT
TELEPHONE (815)-357-6761

OPERATING STATUS

1. REPORTING PERIOD: MARCH 1989 — GROSS HOURS IN REPORTING PERIOD: 744

2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3,323 — MAX DEPEND CAPACITY (MWe-Net): 1,036
DESIGN ELECTRICAL RATING (MWe-Net) 1,078

3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): (None)

4. REASONS FOR RESTRICTION (IF ANY): (N/A)

	REPORTING PERIOD DATA		
	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
5. TIME REACTOR CRITICAL (HOURS)	670.3	2,086.3	28,185.6
6. TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	1,641.2
7. TIME GENERATOR ON-LINE (HOURS)	660.1	2,076.1	27,390.6
8. TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	1.0
9. THERMAL ENERGY GENERATED (MWHt-Gross)	2,068,008	6,647,664	75,426,242
10. ELECTRICAL ENERGY GENERATED (MWHe-Gross)	707,667	2,278,676	24,924,430
11. ELECTRICAL ENERGY GENERATED (MWHe-Net)	683,022	2,193,413	23,768,942
12. REACTOR SERVICE FACTOR (%)	90.1	96.6	61.1
13. REACTOR AVAILABILITY FACTOR (%)	90.1	96.6	64.7
14. SERVICE FACTOR (%)	88.7	96.1	59.5
15. AVAILIBILITY FACTOR (%)	88.7	96.1	59.5
16. CAPACITY FACTOR (USING MDC) (%)	88.6	98.0	49.9
17. CAPACITY FACTOR (USING DESIGN MWe) (%)	85.2	94.2	47.9
18. FORCED OUTAGE FACTOR (%)	11.3	3.9	11.5

19. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
Refueling Sept 5, 1989 12 Weeks

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
(N/A)

D.2 AVERAGE DAILY UNIT POWER LEVEL (MWe-Net)

DOCKET NO. 050-373
UNIT LASALLE ONE
DATE April 10, 1989
COMPLETED BY J.W. THUNSTEDT
TELEPHONE (815)-357-6761

REPORT PERIOD: MARCH 1989

DAY	POWER	DAY	POWER
1	899	17	1,099
2	882	18	1,096
3	-11	19	1,099
4	-11	20	1,100
5	-11	21	1,101
6	101	22	1,089
7	695	23	1,098
8	958	24	1,095
9	950	25	1,096
10	1,094	26	1,092
11	1,098	27	1,071
12	1,098	28	1,065
13	1,099	29	1,063
14	1,098	30	1,090
15	1,079	31	1,087
16	1,098		

D.3 UNIT SHUTDOWNS AND POWER REDUCTIONS > 20%

DOCKET NO. 050-373
UNIT NAME LaSalle One
DATE April 10, 1989
COMPLETED BY J. Thunstedt
TELEPHONE (815)357-6761

REPORT MONTH: MARCH, 1989

YEARLY SEQUENTIAL NUMBER	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
5	2	F	83.9	A	3	Failure of lighting arrestor on U-2 SAT
6	8	S	0.0	B	5	Rod-set

E. UNIQUE REPORTING REQUIREMENTS

1. Safety/Relief valve operations

DATE	VALVES ACTUATED	NO & TYPE ACTUATION	PLANT CONDITION	DESCRIPTION OF EVENT

(None)

2. ECCS System Outages

OUTAGE NO.	EQUIPMENT	PURPOSE
(Unit 0)		
0-82-89	0 D/G Cooling Water Pump	Lubrication.
0-83-89	0 D/G Air-Start Solenoid and Regulator.	Repair/replace regulator.
(UNIT 1)		
1-122-89	HPCS D/G Strainer	Adjust valve stroke
1-125-89	1E12-D311B (RH)	Replace "B" RHR vent sight-glass.
1-126-89	"C" RHR Pump	Replace motor oil.
1-127-89	"B" RHR Pump	Replace motor oil.
1-128-89	RHR Service Water pumps C&D	Lubricate coupling.
1-130-89	1E12-F073B	Install limiter plate.
1-133-89	1A D/G	Lubricate.
1-134-89	1A D/G	Install gasket on bypass lube-oil valve.

E.2. ECCS System Outages (Cont'd)

OUTAGE NO.	EQUIPMENT	PURPOSE
1-147-89	1E12-C002A	Lubricate "1A" RHR motor.
1-148-89	1E21-C001	Lubricate HPCS motor
1-149-89	1E21-C002	Lubricate HPCS water-leg pump coupling.
1-150-89	RHR Service-Water Pumps	Lubricate coupling.
1-153-89	1E51-F059 (RCIC)	(Administrative)
1-156-89	1B D/G	Lubricate and change filters.
1-157-89	1E22-C003 HCPS Water-leg pump	Replace oil
1-158-89	1E22-C003 HPCS Water-leg pump	Lubricate coupling.
1-159-89	1E22-C003 HPCS Water-leg pump	Lubricate motor bearing.
1-160-89	1DO02F HPCS D/G Fuel Pump	Replace oil.
1-161-89	1DO02P HPCS D/G Fuel Pump	Lubricate motor.
1-162-89	1DO02P HPCS D/G Fuel Pump	Lubricate coupling.
1-163-89	HPCS Pump	Lubricate motor.

3. Off-Site Dose Calculation Manual Changes
(None)

4. Major changes to Radioactive Waste Treatment Systems.
(None)

5. Indications of Failed Fuel Elements
(None)

LASALLE NUCLEAR POWER STATION

UNIT 2

MONTHLY PERFORMANCE REPORT

MARCH, 1989

COMMONWEALTH EDISON COMPANY

NRC DOCKET NO. 050-374

LICENSE NO. NPF-18

DOCUMENT ID 0036r/0031r

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I. INTRODUCTION

The LaSalle County Nuclear Power Station is a two-unit facility owned by Commonwealth Edison Company and located near Marseilles, Illinois. Each unit is a Boiling Water Reactor with a designed net electrical output of 1078 Megawatts. Waste heat is rejected to a man-made cooling pond using the Illinois River for make-up and blowdown. The architect-engineer was Sargent and Lundy and the primary construction contractor was Commonwealth Edison Company.

Unit Two was issued operating license number NPF-18 on December 16, 1983. Initial criticality was achieved on March 10, 1984 and commercial power operation was commenced on June 19, 1984.

This report was compiled by John W. Thunstedt, telephone number (815)357-6761 extension 2463.

II. MONTHLY REPORT

A. SUMMARY OF OPERATING EXPERIENCE

Day	Time	Event
1	0000	Reactor critical, generator on-line, 1100 MWE.
2	1230	Reduced load to 950 MWE to remove 1st-stage feedwater heater for maintenance.
	2300	Reduced load to 8850 MWE to recover internal loads lost by fault on SAT.
03	0300	Ramping to 950 MWE.
07	2000	Reduced load to 700 MWE for feedwater heater maintenance.
08	0530	Ramping to 1070 MWE.
09	0130	Reduced load to 950 MWE to remove "B" turbine-driven reactor feed pump for maintenance.
10	0400	Ramping to 1130 MWE.
11	1430	Reducing load to 850 MWE for feed-water heater maintenance.
12	0630	Ramping to 1130 MWE.
17	2130	Reducing load to 800 MWE for feedwater-heater maintenance.
18	0030	Ramping to 1130 MWE.
23	2130	Reducing load to 850 MWE for feedwater-heater maintenance.
24	0830	Ramping to 1130 MWE.
31	2400	Reactor critical, generator on-line, 1120 MWE.

B. PLANT OR PROCEDURE CHANGES, TESTS, EXPERIMENTS AND SAFETY RELATED MAINTENANCE.

1. Amendments to the Facility License or Technical Specification. (None)

2. Changes to procedures which are described in the Safety Analysis Report.
(None)

3. Tests and Experiments not described in the Safety Analysis Report.
(None)

4. Major corrective maintenance to Safety-Related Equipment.
See Table 1.

5. Completed Safety-Related Modifications.
See Table 2.

B.4 TABLE 1

MAJOR CORRECTIVE MAINTENANCE TO
SAFETY-RELATED EQUIPMENT

WORK REQUEST NUMBER	COMPONENT	CAUSE OF MALFUNCTION	RESULTS AND EFFECTS ON SAFE PLANT OPERATION	CORRECTIVE ACTION
L82239	"A" Reactor Recirc Pumping Element	Throttling vibration	Excessive pump vibration	Replaced element.
L83606	"A" Reactor Recirc Pump Flow Control Valve.	Throttling vibration	(None)	Replaced damaged internals.

B.5 TABLE 2

COMPLETED SAFETY RELATED MODIFICATIONS

MODIFICATION NUMBER	DESCRIPTION
M01-2-86-103	Snubber reduction on subsystem 2RH08 per the snubber reduction program.
M01-2-87-050	Complete the installation of the inside Drywell Cooling area coolers.
M01-2-87-067	Snubber reduction on subsystem main steam and MSIV leakage control per the snubber reduction program.

C. LICENSEE EVENT REPORTS

LER Number	Date	Description
(None)		

D. DATA TABULATIONS

1. Operating Data Report (Attached)
2. Average Daily Unit Power Level (Attached)
3. Unit Shutdowns and Power Reductions (Attached)

D.1 OPERATING DATA REPORT

DOCKET NO. 050-374
UNIT LASALLE TWO
DATE April 16, 1989
COMPLETED BY J.W.THUNSTEDT
TELEPHONE (815)-357-6761

OPERATING STATUS

1. REPORTING PERIOD: MARCH 1989 — GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 3,323 — MAX DEPEND CAPACITY (MWe-Net): 1,036; DESIGN ELECTRICAL RATING (MWe-Net) 1,078
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): (None)
4. REASONS FOR RESTRICTION (IF ANY): (N/A)

	REPORTING PERIOD DATA		
	THIS MONTH	YEAR-TO-DATE	CUMULATIVE
5. TIME REACTOR CRITICAL (HOURS)	744.0	1,246.1	24,724.1
6. TIME REACTOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	1,716.9
7. TIME GENERATOR ON-LINE (HOURS)	744.0	1,194.5	24,285.5
8. TIME GENERATOR RESERVE SHUTDOWN (HOURS)	0.0	0.0	0.0
9. THERMAL ENERGY GENERATED (MWHt-Gross)	2,321,964	3,349,968	69,289,576
10. ELECTRICAL ENERGY GENERATED (MWHe-Gross)	773,972	1,106,844	22,810,182
11. ELECTRICAL ENERGY GENERATED (MWHe-Net)	747,725	1,064,936	21,884,186
12. REACTOR SERVICE FACTOR (%)	100.0	57.7	63.4
13. REACTOR AVAILABILITY FACTOR (%)	100.0	57.7	67.8
14. SERVICE FACTOR (%)	100.0	55.3	62.3
15. AVAILIBILITY FACTOR (%)	100.0	55.3	62.3
16. CAPACITY FACTOR (USING MDC) (%)	97.0	47.6	54.0
17. CAPACITY FACTOR (USING DESIGN MWe) (%)	93.2	45.7	51.9
18. FORCED OUTAGE FACTOR (%)	0.0	0.6	16.2

19. SHUTDOWNS SCHEDULED OVER THE NEXT 6 MONTHS (TYPE, DATE, AND DURATION OF EACH):
(None)

20. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:
(N/A)

D.2 AVERAGE DAILY UNIT POWER LEVEL (MWe-Net)

DOCKET NO. 050-374
UNIT LASALLE TWO
DATE April 10, 1989
COMPLETED BY J.W. THUNSTEDT
TELEPHONE (815)-357-6761

REPORT PERIOD: MARCH 1989

DAY	POWER	DAY	POWER
1	1,028	17	1,059
2	942	18	941
3	904	19	1,077
4	912	20	1,079
5	912	21	1,079
6	910	22	1,077
7	887	23	1,045
8	891	24	952
9	906	25	1,071
10	1,017	26	1,069
11	993	27	1,043
12	955	28	1,041
13	1,082	29	1,042
14	1,062	30	1,000
15	1,077	31	1,042
16	1,060		

D.3 UNIT SHUTDOWNS AND POWER REDUCTIONS >20%

DOCKET NO. 050-374
UNIT NAME LaSalle Two
DATE April 10, 1989
COMPLETED BY J. Thunstedt
TELEPHONE (815)357-6761

REPORT MONTH: MARCH, 1989

YEARLY SEQUENTIAL NUMBER	DATE	TYPE F: FORCED S: SCHEDULED	DURATION (HOURS)	REASON CODE	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER	CORRECTIVE ACTIONS/COMMENTS
3	3-2-89	F	4.0	A	5	Recover from failure of lighting arrestor on SAT
4	3-7-89	S	0.0	B	5	Feedwater-heater maintenance.
5	3/11/89	S	0.0	B	5	Feedwater-heater maintenance.
6	3/17/89	S	0.0	B	5	Feewater-heater maintenance.
7	3/23/89	S	0.0	B	5	Feedwater-heater maintenance.

E. UNIQUE REPORTING REQUIREMENTS

1. Safety/Relief Valve Operations

DATE	VALVES ACTUATED	NO & TYPE ACTUATIONS	PLANT CONDITION	DESCRIPTION OF EVENT
(None)				

2. ECCS System Outages

OUTAGE NO.	EQUIPMENT	PURPOSE
2-391-89	2B D/G Cooling Water Pump	Replace oil.
2-392-89	2B D/G	Replace flexible conduit
2-408-89	2E51-F012 (RCIC)	Repack valve.
2-421-89	2FW01PC	Replace seals.
2-450-89	2A D/G	Replace immersion heater.
2-451-89	2A D/G	Lubricate.
2-453-89	2DG01P	Lubricate coupling.
2-454-89	2DO01P	Lubricate coupling.

3. Off-Site Dose Calculation Manual
(None)

4. Major changes to Radioactive Waste Treatment Systems.
(None)

5. Indications of Failed Fuel Elements.
(None)

Commonwealth Edison
LaSalle County Nuclear Station
Rural Route #1, Box 220
Marseilles, Illinois 61341
Telephone 815/357-6761

April 10, 1989

Director of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

ATTN: Document Control Desk

Gentlemen:

Enclosed for your information is the monthly performance report covering LaSalle County Nuclear Power Station for March, 1989.

Very truly yours,

WRo

for G. J. Diederich
Station Manager
LaSalle County Station

GJD/JWT/sjc

Enclosure

xc: A. B. Davis, NRC, Region III
NRC Resident Inspector LaSalle
Gary Wright, Ill. Dept. of Nuclear Safety
P. Shemanski, NRR Project Manager
D. P. Galle, CECo
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Central File

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