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LaSalle Generating Station  
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**ComEd**

September 21, 1995

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

This supplement to Licensee Event Report #95-006-01, Docket #050-374, is being submitted to your office in accordance with 10CFR50.73(a)(2)(I)(B).

Sincerely,



D. J. Ray  
Station Manager  
LaSalle County Station

DJR/WJS/lja

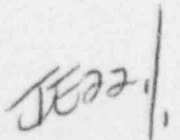
Enclosure

cc: H. J. Miller, NRC Region III Administrator  
P. G. Brochman, NRC Senior Resident Inspector  
R. J. Zuffa, IDNS Resident Inspector  
F. Niziolek, IDNS Senior Reactor Analyst  
INPO - Records Center  
D. L. Farrar, Nuclear Regulatory Services Manager

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A Unicom Company



LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) LaSalle County Station Unit 2	DOCKET NUMBER (2) 05000374	PAGE (3) 1 OF 4
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TITLE (4) Primary Containment Maximum Allowable Leakage Exceeded Due to LLRT Failure

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
03	02	95	95	-- 006 --	01	09	21	95	None	
									FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9) 5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)									
POWER LEVEL (10) 000	20.2201(b)	20.2203(a)(3)(i)	50.73(a)(2)(iii)	73.71(b)						
	20.2203(a)(1)	20.2203(a)(3)(ii)	50.73(a)(2)(iv)	73.71(c)						
	20.2203(a)(2)(i)	20.2203(a)(4)	50.73(a)(2)(v)	OTHER						
	20.2203(a)(2)(ii)	50.36(c)(1)	50.73(a)(2)(vii)	(Specify in Abstract below and in Text, NRC Form 366A)						
	20.2203(a)(2)(iii)	50.36(c)(2)	50.73(a)(2)(viii)(A)							
	20.2203(a)(2)(iv)	x 50.73(a)(2)(i)	50.73(a)(2)(viii)(B)							
	20.2203(a)(2)(v)	50.73(a)(2)(ii)	50.73(a)(2)(x)							

LICENSEE CONTACT FOR THIS LER (12)

NAME William J. Siwec, System Engineer, Extension 2575	TELEPHONE NUMBER (include Area Code) (815) 357-6761
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE).	NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On March 20, 1995, while Unit 2 was in its sixth refuel outage (L2R06), the maximum allowable primary containment leakage rate was exceeded during the performance of a Local Leak Rate Test. The 2RE024 and 2RE025 Drywell Equipment Drain Sump Containment Isolation Valves were determined to be leaking excessively. The 0.6 La maximum allowable total primary containment Minimum-Pathway leak rate of 231.4 scfh was exceeded per 10CFR50 Appendix J and Technical Specification 3.6.1.2.b, Primary Containment Integrity.

The source of the excessive leakage was determined to be seat leakage occurring through both valves. Table 1 lists Primary Containment Isolation Valves which failed to meet acceptance criteria during the course of the Unit 2 Refuel Outage. The cause of the excessive leakage through these and all other Primary Containment Valves repaired throughout the outage are described in Table 2. The 2RE024 and 2RE025 Drywell Equipment Drain Sump Containment Isolation Valves were repaired prior to Unit 2 startup from L2R06.

This event is reportable pursuant to 10CFR 50.73(a)(2)(i)(B) due to a condition prohibited by the plant's Technical Specification.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)		PAGE (3)
LaSalle County Station Unit 2		05000374	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
			95	-- 006 --	01
					2 OF 4

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

A. CONDITION PRIOR TO EVENT

Unit(s): 2 Event Date: 03/20/95 Event Time: 1600 Hours  
 Reactor Mode(s): 5 Modes(s) Name: Defueled Power Level(s): 0%

B. DESCRIPTION OF EVENT

On March 20, 1995, while Unit 2 was in its sixth refuel outage (L2R06), the maximum allowable Primary Containment (PC)[NH] leakage rate was exceeded during the performance of a Local Leak Rate Test. The 2RE024 and 2RE025 Drywell Equipment Drain (RE)[WK] Sump Containment Isolation Valves had been Local Leak Rate Tested per LaSalle Technical Surveillance Procedure LTS-100-18. The leakage rate was determined to be excessive (test volume could not be pressurized) and was determined to be occurring through both 2RE024 and 2RE025 Containment Isolation Valves. The 0.6 La maximum allowable total primary containment Minimum-Pathway leak rate of 231.4 scfh was exceeded per 10CFR50 Appendix J and Technical Specification 3.6.1.2.b, Primary Containment Integrity.

The L2R06 total as-found minimum-pathway 0.6 L<sub>a</sub> criteria of 231.4 scfh was exceeded as the as-found total was found to be indeterminate as a result of the 2RE024 and 2RE025 Containment Isolation Valves' LLRT Failures. The source of the excessive leakage was determined to be seat leakage occurring through both valves. Table 1 lists Primary Containment Isolation Valves which failed to meet acceptance criteria during the course of the Unit 2 Refuel Outage L2R06. The cause of the excessive leakage through these and all other Primary Containment Valves repaired through the outage are described in Table 2. The total as-left 0.6 L<sub>a</sub> Leak Rate prior to Unit 2 startup from L2R06 was 112.231 scfh, approximately 50% of the allowable Technical Specification limit of 231.4 scfh.

LICENSEE EVENT REPORT (LER)  
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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
LaSalle County Station Unit 2	05000374	95	-- 006 --	01	3 OF 4

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

C. CAUSE OF EVENT

This event is reportable pursuant to 10CFR 50.73(a)(2)(i)(B) due to a condition prohibited by the plant's Technical Specifications.

The cause of the event was due to apparent seat leakage past both the 2RE024 and 2RE025 containment isolation valves.

D. SAFETY ANALYSIS

The safety consequences of this event were minimal. With respect to the 2RE024 and 2RE025 valves, the drywell RE sump would normally be filled with water. Although sump level may vary, the water would tend to seal any air leakage. In the event that air leakage eventually occurred through the containment isolation valves, the downstream piping is normally filled with water and provides additional isolation with normally closed automatic valves that are designed to open with pump flow.

These valves, while they represent a substantial portion of the total measured leakage for the primary containment, would contribute little or nothing to a radiological release under accident conditions.

E. CORRECTIVE ACTIONS

In the course of performing Local Leak Rate Tests during the L2R06 outage, other valves were found to have exceeded administrative leakage limits. These valves were repaired to bring the 0.6 L<sub>a</sub> total containment leakage below the Technical Specification limit of 231.4 scfh prior to Unit 2 startup from L2R06.

LaSalle Station has taken corrective actions to resolve recurring containment isolation valve failures. As a result of these efforts, the total allowable containment Minimum-Pathway leakage rate had not been exceeded since 1990 during Unit 2 refuel outage L2R03. These corrective actions are detailed in Table 2.

LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

F. PREVIOUS OCCURRENCES

LER Number	Title
373/83-107/03L-0	Total containment maximum allowable (0.6 La) leak rate exceeded as a result of numerous containment isolation valve LLRT failures
373/83-146/05X-1	Failure of Feedwater Inboard check valve LLRT resulted in 0.6 La total containment maximum allowable leakage being exceeded
373/84-012	Total containment maximum allowable (0.6 La) leak rate was exceeded as a result of numerous containment isolation valve LLRT failures
373/84-061-01	Failure of Inboard Feedwater check valve LLRT resulted in 0.6 La total containment maximum allowable leakage being exceeded
373/85-066-01	Total containment Maximum allowable (0.6 La) maximum-path leak rate exceeded due to LLRT failure of Inboard Feedwater check valve
374/87-002-01	Total containment maximum allowable (0.6 La) leak rate was exceeded due to several LLRT failures
373/88-002-01	Total containment maximum allowable (0.6 La) leak rate was exceeded due to LLRT failures of Primary Containment Ventilation and Main Steam Inboard MSIV Drain Isolation valves
374/89-013-01	LLRT failure of Hydrogen Recombiner Combustible Gas Control Return valves resulted in total containment maximum allowable (0.6 La) leakage rate being exceeded
374/90-004-01	Total containment maximum allowable 0.6 La leak rate exceeded due to LLRT failure of Reactor Water Cleanup Suction and other containment isolation valves

G. COMPONENT FAILURE DATA

MANUFACTURER	NOMENCLATURE	MODEL NUMBER
ACF Industries	2RE024 (AOV) 2" Globe	70-29-1 DRTS
ACF Industries	2RE025 (AOV) 2" Globe	70-29-1 DRTS

**TABLE 1**

Manufacturer	Nomenclature	Model Number
Clow Engineering	2VQ026 (AOV) 26" Butterfly	26" Wafer Stop Valve
Clow Engineering	2VQ027 (AOV) 26" Butterfly	26" Wafer Stop Valve
Anchor Darling	2B21-F032B 24" 1500# Check	3600-3 Tilt Disc Ck
Anchor Darling	2G33-F040 (MOV) 4" Gate	93-14403
ACF Industries	2RE024 (AOV) 2" Globe	70-29-1 DRTS
ACF Industries	2RE025 (AOV) 2" Globe	70-29-1 DRTS
Anchor Darling	2VP053A (MOV) 8" Gate	93-14412
Anchor Darling	2HG005A (MOV) 6" Gate	93-14409
Rockwell	2E51-F028 1.25" Check	838YT
Anchor Darling	2E51-F040 10" Check	150# Lift Ck Globe
Anchor Darling	2E32-F001A (MOV) 2.5" Gate	93-14740
Rockwell	2B21-F028A (AOV) 26" Globe (MSIV)	1612 JMMNTY
Anchor Darling	2B21-F016 (MOV) 3" Gate	94-13750
Anchor Darling	2B21-F019 (MOV) 3" Gate	94-13751

**TABLE 2**

All leakage values are in Standard Cubic Feet per Hour (SCFH).

\*The limit for the Main Steam lines is 100 scfh for all four Main Steam Lines Combined.

Valve	System	As Found	As Left	Admin Limit	Cause/Corrective Action
2B21-F028A	MS	42.52	1.02	100*	Leakage caused by divot on seating surface of main valve disc. Machined disc and seat to remove irregularities.
2E32-F001A	LC	42.52	1.02	100*	Found black hard scale on both seats and both sides of disc wedge. Cleaned seats and disc/removed scale.
2B21-F032B	FW	45.08	15.76	15.0	Check valve air actuator packing leak. Inspected valve internals/Repacked.
2G33-F040	RT	44.87	0.55	1.25	Packing Leak. Broken bolt on packing gland ring. Repacked valve. Replaced broken hardware. Gear Ratio change. Increased torque switch setting/seating forces.
2E51-F028	RI	Infinite	1.60	2.00	Rust deposits found. Improper seating angle. Cleaned/lapped valve. Machined disc/seat to obtain proper seating angles.
2E51-F040	RI	10.01	4.22	3.125	Slightly dirty/filmy seating surfaces. Cleaned seating surfaces.

**TABLE 2** (Continued)

Valve	System	As Found	As Left	Admin Limit	Cause/Corrective Action
2B21-F016	MS	6.48	0.00	0.937	Flex wedge gate valve cut out and entirely replaced with double disc gate valve per scheduled modification due to problem history.
2B21-F019	MS	6.48	0.00	0.937	Flex wedge gate valve cut out and entirely replaced with double disc gate valve per scheduled modification due to problem history.
2HG005A	HG	24.19	1.20	1.875	Position Indicating Rod/Locknut jammed against actuator stem nut. Repaired/Replaced stem nut. Cleaned stem. Installed larger motor per scheduled modification.
2RE024	RE	Infinite	0.40	5.00	Debris found on valve seats. Major packing leak. Resurfaced seating areas. Rebuilt actuator. Repacked. Additionally, a plant modification was performed installing permanent screens in the Drywell Sumps to prevent foreign material intrusion into the RE piping and isolation valves.



**TABLE 2** (Continued)

Valve	System	As Found	As Left	Admin Limit	Cause/Corrective Action
2RE025	RE	Infinite	0.40	5.00	Seat was found damaged due to foreign material. Resurfaced seating areas. Rebuilt actuator. Repacked. Additionally, a plant modification was performed installing permanent screens in the Drywell Sumps to prevent foreign material intrusion into the RE piping and isolation valves.
2VQ026	VQ	27.33	4.54	8.125	Seat damage (scratches noted). Replaced seat wafer ring on disc. Refurbished Actuator.
2VQ027	VQ	27.33	4.54	8.125	Valve actuator spring found to be weak. Found dent on disc seat ring. Replaced seat wafer ring on disc. Refurbished actuator. Inspected/cleaned seating area.
2VP053A	VP	15.26	1.20	2.50	Disc was found to be seating toe heavy (seating lower than required) and bonnet appeared to be leaking. Disc was cut to change seating angle. Cleaned/reassembled.