

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Waterford 3 Steam Electric Station	DOCKET NUMBER (2) 0 5 0 0 0 3 8 2	PAGE (3) 1 OF 04
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TITLE (4)

Engineered Safety Features Actuation on Control Room Isolation

EVENT DATE (6)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)									
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)							
0	2	1	6	8	5	0	0	5	0	0	0	0	5	0	0	0		
									N/A									
									N/A									

OPERATING MODE (9) 3		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																				
POWER LEVEL (10) 0 1 0 1 0	20.402(b)	20.406(a)(1)(i)	20.406(a)(1)(ii)	20.406(a)(1)(iii)	20.406(a)(1)(iv)	20.406(a)(1)(v)	20.406(c)	50.36(c)(1)	50.36(c)(2)	50.73(a)(2)(i)	50.73(a)(2)(ii)	50.73(a)(2)(iii)	50.73(a)(2)(iv)	50.73(a)(2)(v)	50.73(a)(2)(vi)	50.73(a)(2)(vii)	50.73(a)(2)(viii)(A)	50.73(a)(2)(viii)(B)	50.73(a)(2)(ix)	73.71(b)	73.71(c)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)

LICENSEE CONTACT FOR THIS LER (12)									
NAME J.R. McGaha, Maintenance Superintendent									
TELEPHONE NUMBER 5 1 0 4 4 1 6 4 1 - 1 3 1 1 3 1 8									

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)	X NO				

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

## ABSTRACT

On February 16, 1985, and again on February 18, 1985, Waterford 3 Steam Electric Station was in Mode 3 when an automatic actuation of the Engineered Safety Features portion of the Control Room Ventilation System occurred. In each event there was no detectable trace of either radiation or toxic gases.

Each event was reported to the Commission pursuant to 10CFR50.72(b)(2)(ii).

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

NARRATIVE

Waterford 3 Steam Electric Station was in mode 3 when two (2) actuations of the Engineered Safety Features portion of the Control Room Ventilation System occurred. The first event occurred on February 16, 1985 at 0552 CST when the Control Room Outside Air Intake Radiation Monitors, ARM-IRE-0200.2S and ARM-IRE-0200.6S, spiked high resulting in the ventilation system transferring to the recirculation mode. Channel 1 of the Toxic Gas Monitor alarmed coincident with the above spike; however, both signals quickly cleared. A grab sample, taken after the isolation, revealed that the outside air was within the minimum detectable activity. Operations Personnel subsequently restored the ventilation system to its normal configuration.

Then on February 18, 1985 at 2335 CST the Ammonia Detector B pegged high resulting in a Control Room Ventilation Recirculation Actuation. The reference alarm, which has no isolation function, for both the Ammonia A and B Detector sounded coincident with the above actuation. A grab sample, taken after the isolation, revealed no indication of ammonia. The actuation signal cleared shortly, however, in order to facilitate maintenance, both channels of the Ammonia Detectors were declared inoperable. As a result, the Control Room Ventilation System remained in the recirculation mode.

SAFETY CONSEQUENCES AND IMPLICATIONS

Since the ventilation equipment performed as designed, and since the Toxic Gas and Control Room Outside Air Intake would have performed as designed in the event of a toxic gas or radioactive release, the health and safety of plant personnel and the general public were never jeopardized.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

CORRECTIVE ACTION

As previously mentioned in Licensee Event Reports 84-001 and 85-002 (LER-84-001 and LER-85-002), spurious and/or inadvertent alarming of the Control Room Outside Air Intake Monitors is due to "noise", in the form of electrical spikes, that is picked up by the signal input to the preamplifier board, and is read as a sudden increase in the radiation level above the alarm setpoints. Most of these spikes are caused by the actuation of relays that are in, or associated with, the Radiation Monitors. In an effort to alleviate the above condition electrocubes (resistive - capacitive circuits) have been installed to filter noise spikes. In addition, the Control Room Outside Air Intake Radiation Monitor preamplifier boards will be shielded as defined in Station Modification number 729 and Condition Identification Work Authorization number 15270. The above modification should be completed by the end of March.

As outlined in LER-85-002, the Toxic Gas Monitors have proved to be very sensitive to changes in climatic conditions. In the case of the Ammonia Detectors, heavy fog around the plant site will cloud the mirrors within the detectors causing the reference leg to go into the alarm condition. However, an increase in the reference reading will not result in a Control Room Isolation. In this event the Ammonia Detectors were declared inoperable in order for Maintenance Personnel to clean the mirrors.

Spikes and/or spurious signals (causing a Control Room Isolation) within the Ammonia Detectors have proved to be short lived and infrequent. A functional test (per procedure MI-3-503, Ammonia Detection System Channel Functional Test), performed on February 22, 1985 did not identify any problems with the detectors. However, the detectors will be monitored closely by Plant Personnel.

SIMILAR EVENTS

LER-84-001 and LER-85-002 reported similar voltage spiking problems.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

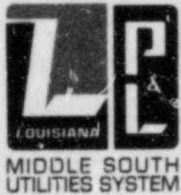
EXPIRES 8/31/85

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

PLANT CONTACT

John R. McGaha, Maintenance Superintendent, 504/464-3138



**LOUISIANA**  
POWER & LIGHT

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March 13, 1985

W3P85-0661  
3-A1.01.04  
C14.03  
A4.05

Director, Office of Nuclear Reactor Regulation  
ATTENTION: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Waterford 3 SES  
Docket No. 50-382  
License No. NPF-26  
Reporting of Licensee Event Report

Dear Sirs:

Attached is Licensee Event Report Number LER-85-005-00 for the Waterford 3 Steam Electric Station. This Licensee Event Report is submitted per 10CFR50.73(a)(2)(iv).

Very truly yours,

K.W. Cook  
Nuclear Support & Licensing Manager

KWC:GEW:sms

Attachment

cc: R.D. Martin, G.W. Knighton, D.M. Crutchfield, NRC Resident Inspectors  
Office, INPO Records Center (J.T. Wheelock), E.L. Blake,  
W.M. Stevenson

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