



**Entergy
Operations**

Entergy Operations, Inc.
P.O. Box B
Kennerly, LA 70066
Tel: 504-739-6650

Ref: 10CFR50.73(a)(2)(i)

W3B5-91-0047
A4.05
QA

January 28, 1991

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

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Reporting of Licensee Event Report

Gentlemen:

Attached is Licensee Event Report Number LER-90-020-00 for Waterford Steam Electric Station Unit 3. This Licensee Event Report is submitted as an item of potential industry interest.

Very truly yours,

J.R. McGaha
J.R. McGaha
General Manager - Plant Operations

JRM/DDW/glp
Attachment

cc: Messrs. R.D. Martin
G.L. Florreich
J.T. Wheelock - INPO Records Center
E.L. Blake
D.L. Wigginton
NRC Resident Inspectors Office

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PDR ADDCK 05000382
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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 RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503

FACILITY NAME (1) Waterford Steam Electric Station Unit 3	DOCKET NUMBER (2) 0 5 0 0 0 3 8 2	PAGE (3) 1 OF 0 3
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TITLE (4)
Chlorine Gas Release From Local Chemical Plant

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 NAMES	DOCKET NUMBER(S)
1	2	2	9	0	0	0	1	2	N/A	0 5 0 0 0 0
7	9	0	9	0	0	8	9	1	N/A	0 5 0 0 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)

OPERATING MODE (8) 1	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 1 0 0	20.405(a)(1)(iii)	50.36(i)(1)	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(iii)	50.36(i)(2)	50.73(a)(2)(viii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.405(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	Voluntary
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
	20.405(a)(1)(iv)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME P.V. Prasankumar, Technical Services Manager	TELEPHONE NUMBER 5 0 4 4 6 4 - 3 1 3 1
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15) MONTH: DAY: YEAR:
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On December 27, 1990, an alert was declared at 2116 hours at Waterford Steam Electric Station Unit 3, due to a release of chlorine gas from a nearby chemical plant. Waterford 3 was notified of a site area emergency at the chemical plant and entered procedures for Toxic Chemical Release (Operating Procedure 901-047) and Toxic Chemical Emergency (Emergency Plan 004-010). At 2144, the event was terminated. This event is being reported as an item of potential industry interest although this event did not present a hazard to plant equipment or the health and safety of the general public.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-5301) U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

Waterford Steam
Electric Station

DOCKET NUMBER (2)

0 5 0 0 0 3 8 2

LER NUMBER (6)

YEAR SEQUENTIAL REVISION

NUMBER NUMBER NUMBER

9 0 - 0 2 0 - 0 0

PAGE (3)

0 2 OF 0 3

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

At 2116 on December 27, 1990, Waterford Steam Electric Station Unit 3 was operating at 100% power when an alert was declared due to a chlorine gas release from a local chemical plant. Upon notification of the Site Area Emergency via the St. Charles Parish Industrial Hotline, Toxic Chemical Release (Operating Procedure 901-047) and Toxic Chemical Emergency (Emergency Plan 004-010) procedures were entered. Plant personnel were directed to take shelter. St. Charles Parish authorities terminated the event at 2144 shortly after the chlorine gas release was secured.

The source of the chlorine gas release was a chlorine pipe which failed at the chemical plant when a system process was interrupted. According to sources at the chemical plant, the chlorine gas levels did not exceed 3 parts per million (ppm) at the levee adjacent to the plant (see attached map). Due to the wind direction and the location of Waterford 3 relative to the release point, the release did not directly impact Waterford 3 habitability. The short term exposure limit for chlorine gas is 5 ppm. Toxic gas monitors at Waterford 3 did not detect any chlorine gas. Because the chlorine gas levels at Waterford Steam Electric Station Unit 3 did not exceed 3 ppm, an actual threat to the safety of the plant did not exist. This event is being reported voluntarily as an item of potential industry interest.

SIMILAR EVENTS

None

PLANT CONTACT

P.V. Prasankumar, Technical Services Manager, 504/464-3131.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F 5301) U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555 AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104) OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503

FACILITY NAME (1) Waterford Steam Electric Station Unit 3	DOCKET NUMBER (2) 0500038290	LER NUMBER (8)			PAGE (3) 03 OF 03
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
		90	020	00	

TEXT (If more space is required, use additional NRC Form 296A's) (17)

