

Safety Related
ENERGY

ENERGY OPERATIONS INCORPORATED
ARKANSAS NUCLEAR ONE

TITLE: ARKLA NATURAL GAS LINE RUPTURE

PROC/WORK PLAN NO. 1903.021

REV. 4

EXP. DATE

SAFETY-RELATED
YES NO

UN-Controlled Copy #103

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Energy
Operations

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1903.021

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1.0 PURPOSE

The purpose of this procedure is to describe the actions to be taken if the 10-inch ARKLA natural gas line that traverses the site ruptures or a leak is discovered.

2.0 SCOPE

This procedure is limited to response to ARKLA natural gas line rupture due to the nature of the follow-up actions. The precautions, symptoms and immediate actions may apply to situations involving other gaseous fuels.

The ARKLA gas line crosses AP&L property approximately 200 feet southwest of the Unit II cooling tower and crosses the Unit I discharge canal. The line is 10 inches in size and carries 475 psig to 500 psig gas pressure.

3.0 REFERENCES

3.1 References Used in Procedure Preparation:

- 3.1.1 Arkansas Nuclear One Unit 1 and Unit 2 Final Safety Analysis Reports.
- 3.1.2 Emergency Plan.

3.2 References Used in Conjunction with this Procedure:

- 3.2.1 1903.10, "Emergency Action Level Classification"
- 3.2.2 1903.11, "Emergency Response/Notifications"

3.3 Related ANO Procedures:

None

3.4 Regulatory correspondence containing NRC commitments which are implemented in this procedure:

None

4.0 DEFINITIONS

None

5.0 RESPONSIBILITY AND AUTHORITY

As described in Sections 7.2 and 7.3.



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6.0 LIMITS AND PRECAUTIONS

- 6.1 There should be no smoking or other open flames in the vicinity of the leak.
- 6.2 Leaking natural gas could be ignited by the corona on electric transmission lines or by automobile engine spark leaks.

7.0 INSTRUCTIONS

7.1 Symptoms

7.1.1 Small Gas Leaks

- A. Dead Grass
- B. Ground cracked and gray in color
- C. Bubbles in wet places
- D. Bubbles toward the end of the discharge canal
- E. Gaseous Odors

7.1.2 Large Gas Leaks

- A. Audible sound ranging in magnitude from a hissing sound to a roar.
- B. Hole in the ground with blowing dust and other debris.

7.2 IMMEDIATE ACTIONS

- 7.2.1 Personnel should immediately extinguish all smoking materials and exit the area by the most direct means.
- 7.2.2 Personnel should immediately notify either Control Room of the leak and remain available to prevent unsuspecting persons from approaching the area.

7.3 FOLLOW-UP ACTIONS

- 7.3.1 Control room personnel should announce the following message on the public address system:

MESSAGE: "Attention all personnel! Attention all personnel!
An Arkla Natural Gas Line Rupture has occurred in
the ...(location)... due to ...(nature of rupture)...
All personnel stay clear of the area."



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7.3.2 The Control Room should notify the Arkansas Louisiana Gas Company as follows:

A. Week Days: Pipeline Warehouse --- 968-1313

B. After Hours: ARKLA Central System Dispatcher,
Shreveport, LA. (318-429-2782 or 318-429-2700)

7.3.3 Shift operations personnel not involved with controlling the emergency should report to the Control Room.

7.3.4 The notified Shift Operations Supervisor should designate personnel to cordon off the area, maintain surveillance and warn others that may approach the affected area.

7.3.5 The Shift Operations Supervisor shall declare a Notification of Unusual Event Emergency Class if a plant evacuation is required as a result of the release as required by procedure 1903.10, "Emergency Action Level Classification".

8.0 ATTACHMENTS AND FORMS

None