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ABOUT LINCOLN ELECTRIC SYSTEM LANDFILL GAS PIPELINE

The Lincoln Electric System (LES) has a landfill gas pipeline that transports methane gas from the City of Lincoln's Bluff Road Landfill to the LES Terry Bundy Generating Station.

ABOUT LANDFILL GAS

Landfill Gas is the product of microbiological decomposition of land-filled garbage and is composed of roughly 50% methane gas (primary component of natural gas), 50% carbon dioxide (CO₂), and a small amount of non-methane gas such as nitrogen, oxygen, ammonia, sulfides, hydrogen, and various other non-methane organic compound gases.

Methane is a naturally occurring gas. It is colorless and odorless. Carbon dioxide is naturally found at small concentrations in the atmosphere (0.03%). It is colorless, odorless, and slightly acidic. Nitrogen comprises approximately 79% of the atmosphere. It is odorless, tasteless, and colorless. Oxygen comprises approximately 21% of the atmosphere. It is odorless, tasteless, and colorless. Sulfides (e.g., hydrogen sulfide, dimethyl sulfide, mercaptans) are naturally occurring gases that give the landfill gas mixture its rotten-egg smell. Sulfides can cause unpleasant odors even at very low concentrations. Hydrogen is an odorless, colorless gas. Carbon monoxide is an odorless, colorless gas. Non-methane organic compounds are organic compounds that may occur naturally or be formed by synthetic chemical processes.

LANDFILL GAS SYSTEM OVERVIEW

Landfill gas is collected generally through extractions wells, and then transported to processing equipment in order to convert it to usable energy. The U.S. Department of Transportation's

guidelines require your landfill gas company to make you aware of certain safety recommendations regarding your underground landfill piping.

WHAT DOES LINCOLN ELECTRIC SYSTEM LANDFILL GAS PIPELINE DO IF A LEAK OCCURS?

To prepare for the event of a leak, pipeline companies regularly communicate, plan and train with local emergency responders. Upon the notification of an incident or leak the pipeline company will immediately dispatch trained personnel to assist emergency responders.

Pipeline operators and emergency responders are trained to protect life, property and facilities in the case of an emergency.

Pipeline operators will also take steps to minimize the amount of product that leaks out and to isolate the pipeline emergency.

MAINTAINING SAFETY AND INTEGRITY OF PIPELINES

Lincoln Electric System Landfill Gas Pipeline invests significant time and capital maintaining the quality and integrity of their pipeline systems.

Most active pipelines are monitored 24 hours a day via manned control centers. Lincoln Electric System Landfill Gas Pipeline also utilizes aerial surveillance and/or on-ground observers to identify

PRODUCT TRANSPORTED

PRODUCT	LEAK TYPE	VAPORS
LANDFILL GAS	Gas	Vapors are initially heavier than air and spread along the ground and collect in low or confined areas. Vapors may travel to source of ignition and flash back.
HEALTH HAZARDS	Will be easily ignited by heat, sparks or flames and will form explosive mixtures with air. Vapors may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.	

EMERGENCY CONTACT:

1-800-947-7282

PRODUCTS/DOT GUIDEBOOK ID#/GUIDE#:

Landfill Gas 1971 115

NEBRASKA COUNTIES OF OPERATION:

Lancaster

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

potential dangers. Control center personnel continually monitor the pipeline system and assess changes in pressure and flow. They notify field personnel if there is a possibility of a leak. Automatic shut-off valves are sometimes utilized to isolate a leak.

Gas transmission and hazardous liquid pipeline operators have developed supplemental hazard and assessment programs known as Integrity Management Programs (IMPs). Specific information about Lincoln Electric System Landfill Gas Pipeline's program may be found by contacting us directly.

HOW TO GET ADDITIONAL INFORMATION

For an overview of Lincoln Electric System Landfill Gas Pipeline's IMP, contacting us directly.