



PUBLIC AWARENESS DEPARTMENT: 1-888-885-6008
E-MAIL US AT: publicawareness@southernstar.com
WEBSITE: www.southernstar.com

SCHOOL SAFETY AROUND PIPELINES

SOUTHERN STAR EMERGENCY NUMBER: 1-800-324-9696





You received this brochure because your school is located near where Southern Star Central Gas Pipeline, Inc. ("Southern Star") pipelines exist.

This brochure contains information about school safety around pipelines, including:

- Recognizing a right-of-way and pipeline marker
- Recognizing a pipeline leak
- Potential hazards of a natural gas pipeline release
- Responding to a pipeline leak
- General information about Southern Star Central Gas Pipeline operations
- Information about 811 and damage prevention

CLASSROOM SAFETY AROUND PIPELINES

Using the information contained in this brochure as a part of your school emergency preparedness planning will help ensure the safety of you, your staff, faculty and students.

For more information about school safety around our pipelines you can contact us at:

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RECOGNIZING A RIGHT-OF-WAY AND PIPELINE MARKER

A pipeline right-of-way is a strip of land over and around a pipeline where some of the property owner's legal rights have been granted to a pipeline company. Pipeline rights-of-way must be kept free from structures and other obstructions for your safety and to provide access for maintenance and in the event of an emergency. If a pipeline crosses your property, do not plant trees, high shrubs or any vegetation that would impede access to the right-of-way. Likewise, do not dig, excavate, operate heavy equipment, build, store or place anything on the right-of-way.

Pipeline markers are found within the pipeline right-of-way.



PIPELINE MARKERS

- Indicate **approximate** location, cannot be used to determine exact location or depth
- Can be found where lines meet at public access points, above ground facilities, streets, highways, waterways and railway intersections
- Display the pipeline operator name, emergency number and product transported

RECOGNIZING A PIPELINE LEAK



SIGHT

Natural gas is colorless, but vapor and "ground frosting" may be visible at high pressures. A gas leak may also be indicated by bubbles in wet or flooded areas, distinct patches of dead vegetation, dust blowing from a hole in the ground or flames if the leak is ignited.



SOUND

Volume can range from a quiet hissing to a loud roar depending on the size of the leak and pipeline system.



SMELL

An unusual smell or gaseous odor will sometimes accompany pipeline leaks. Natural Gas is colorless, tasteless and odorless unless commercial odorants or Mercaptan (a rotten-egg odor) is added. Gas transmission/gas gathering pipelines are odorless, but may contain a hydrocarbon smell.

POTENTIAL HAZARDS OF A NATURAL GAS PIPELINE RELEASE

The products we transport are flammable commodities. Therefore, a potential hazard exists for a release to escalate into a fire or an explosion affecting people and property in the vicinity of the pipeline. A gas release could cause negative impacts to personal health and the environment. It could also cause a loss of services, expensive repairs and fines related to damaging a pipeline. A product release from a high-pressure natural gas pipeline could even create noise levels that are harmful to human hearing.

PRODUCT	LEAK TYPE	VAPORS	HEALTH HAZARDS	FIRE HAZARDS
Natural Gas	Gas	Lighter than air	Extremely high concentrations may cause irritation or asphyxiation	Extremely flammable and easily ignited by heat, sparks or flames

RESPONDING TO A PIPELINE LEAK

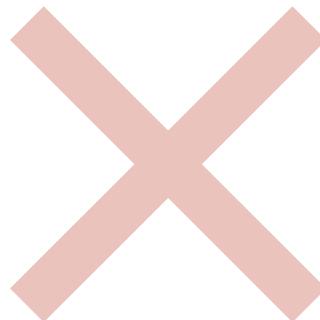
Follow these basic Do's and Don'ts to remain safe during a pipeline leak:

DO



1. Leave the immediate area on foot! Move in a cross wind direction away from the leak or vapor cloud and maintain a safe distance. Abandon any equipment being used in or near the area.
2. Go directly to a safe location, and then call 911 and Southern Star's emergency number.
3. Warn others to stay away from the leak.

DO NOT



1. Cause any open flame or other potential source of ignition such as an electrical switch, vehicle ignition, lighting a match, ringing a doorbell, etc.
2. Come into direct contact with any escaping liquids or gas.
3. Drive into a leak or vapor cloud while leaving the area.
4. Attempt to operate any pipeline valves yourself. You may inadvertently route more product to the leak or cause a secondary incident.
5. Attempt to extinguish a natural gas fire.
6. Use telephones (including cell phones) or anything that could cause a spark.
7. Use e-mail, text or the Internet to contact the company about a leak, and never assume someone else has reported the leak.

NATIONAL PIPELINE MAPPING SYSTEM (NPMS)

The location of Southern Star transmission pipelines can be found at the National Pipeline Mapping System (NPMS) website at npms.phmsa.dot.gov.

PIPELINE PURPOSE AND RELIABILITY

Pipelines are the safest and most efficient means of transporting natural gas, according to National Transportation Safety Board statistics. These pipelines transport the natural gas which provides about 24 percent of all the energy used in the United States.

Southern Star owns and operates approximately 5,800 miles of high-strength steel natural gas pipelines in Colorado, Kansas, Missouri, Nebraska, Oklahoma, Texas, and Wyoming, including eight underground natural gas storage fields located in Kansas and Oklahoma. Underground storage facilities connect to the pipeline system and safely store natural gas. The ability to store gas helps to ensure we have an adequate and reliable supply of natural gas for our customers during times of high demand, such as cold winter days. You may be aware that much of our pipeline system and storage facilities are buried underground, but other facilities related to our business are above ground (e.g. compressor stations, meter stations, valves, etc.).

MAINTAINING SAFETY AND INTEGRITY OF PIPELINES AND STORAGE FACILITIES

Southern Star monitors the operation of our pipeline system 24 hours a day, 7 days a week. Routine inspections, computer monitoring systems, corrosion protection, maintenance, and regular employee training events are just a few of the ways we ensure the safe and reliable operations of our pipeline and storage facilities. Our pipelines and storage wells are designed, tested, installed, operated, and maintained in accordance with all applicable federal and state requirements.

Gas transmission pipeline operators have developed hazard and assessment programs known as Integrity Management Programs (IMPs). IMPs have been implemented for areas designated as "high consequence areas" in accordance with federal regulations. Specific information about Southern Star's program may be found on our website, or by contacting us directly.

High Consequence Areas (HCA) have been identified and a plan has been implemented for environmentally sensitive areas, urbanized and populated areas, and navigable waterway. This plan provides elevated protection for those occupying an open structure such as playgrounds or stadiums, facilities occupied by persons with limited mobility or who would be difficult to evacuate such as hospitals or schools, and highly populated areas. These are called Identified sites. If you know of any identified sites in your jurisdiction, please contact Southern Star at 1-888-885-6008.

PLANNING, ZONING AND PROPERTY DEVELOPMENT

It is crucial to coordinate with pipeline operators when developing site plans where large numbers of people congregate or limited mobility structures such as schools, nursing homes, and churches are being considered. One tool to assist with the planning and zoning around pipelines is the Pipelines and Informed Planning Alliance (PIPA) recommended Practices. The purpose of PIPA is to reduce risks and improve the safety of affected communities and pipelines by improving the way local planning and zoning officials plan new development and land use near transmission pipelines. There are PIPA-developed recommended practices that are available on the PIPA website at www.pipa-info.com.



**Know what's below.
Call before you dig.**

CALL 811

Unsafe excavation around pipelines is dangerous. Excavating includes: digging, fencing, landscaping/gardening, and construction projects – any activity which requires moving dirt.

You are required by law to contact 811, "Call Before You Dig," at least 48 hours prior to excavating. This will connect to your state's One Call Center. The One Call Center notifies Southern Star and other pipeline utility operators in the area of your planned excavation. A representative will be sent free of charge to locate and mark the buried facilities before you dig, as necessary.

This color code chart will help determine which utilities have marked their underground utility lines.



WHITE - Proposed excavation



PINK - Temporary survey markings



RED - Electric power lines, cables, conduit and lighting cables



YELLOW - Gas, oil, steam, petroleum or gaseous materials



ORANGE - Communications, alarm or signal lines, cables or conduit



BLUE - Potable water lines



PURPLE - Reclaimed water, irrigation and slurry lines



GREEN - Sewer lines

STATE	NOTICE REQUIRED
Colorado	2 business days
Kansas	2 business days
Missouri	2 business days
Nebraska	2 business days
Oklahoma	No more than 10 days nor less than 48 hours (EXCLUDING THE DATE OF NOTIFICATION, SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS)
Texas	2 business days
Wyoming	2 business days





DAMAGING OR DISTURBING A PIPELINE

Southern Star maintains a Damage Prevention Program in accordance with state and federal guidelines. If you cause or witness even minor damage to a pipeline or its protective coating, please immediately notify Southern Star. Even a small disturbance to a pipeline may cause a future leak. A gouge, scrape, dent or crease is cause enough for Southern Star to inspect the damage and make repairs. Do not cover a pipeline that has been disturbed. It makes it more difficult to find the damaged area.

SOUTHERN STAR'S RESPONSE TO A LEAK

In order to prepare for the event of a leak, Southern Star regularly communicates, plans, and trains with local emergency personnel such as fire and police departments. Upon the notification of an incident or leak, Southern Star will immediately dispatch trained personnel to assist public safety officials in our response to the emergency. Southern Star will also take steps to minimize the amount of product that leaks out and to isolate the pipeline. For more information about our emergency response plans, visit www.southernstar.com.



FOR MORE INFORMATION PLEASE VISIT THE FOLLOWING WEBSITES:

PIPELINE RESOURCES AND INFORMATION

811 - www.call811.com

Pipeline 101 - www.pipeline101.com

Pipeline Hazardous Materials Safety Administration (PHMSA) - www.phmsa.dot.gov

National Pipeline Mapping System (NPMS) - npms.phmsa.dot.gov

SOUTHERN STAR NON-EMERGENCY CONTACT INFORMATION

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