

COORDINATED RESPONSE EXERCISE

Pipeline Safety Training For First Responders



EMERGENCY RESPONSE MANUAL

Overview

Operator Profiles

Emergency Response

NENA Pipeline Emergency Operations

Signs of a Pipeline Release

High Consequence Area Identification

Pipeline Industry ER Initiatives

Pipeline Damage Reporting Law

2025

EMERGENCY CONTACT LIST

COMPANY	EMERGENCY NUMBER
Carolina Gas Transmission	1-800-789-7272
East Tennessee Natural Gas / Texas Eastern Transmission L.P. (Ent	oridge) 1-800-231-7794
Enterprise Products Operating, LLC	1-888-883-6308
Sabal Trail Transmission, LLC (Operated by Enbridge)	1-888-568-7269
Southern Natural Gas Company	1-800-252-5960

Note: The above numbers are for emergency situations.

Additional pipeline operators may exist in your area.

Visit the National Pipeline Mapping System at www.npms.phmsa.dot.gov for companies not listed above.

ONE-CALL SYSTEM	PHONE NUMBER
Georgia 811	1-800-282-7411
National One-Call Referral Number	1-888-258-0808
National One-Call Dialing Number	811

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To: ALL EMERGENCY OFFICIALS

From: Paradigm Liaison Services, LLC

Re: Pipeline Emergency Response Planning Information

This material is provided to your department as a reference to pipelines that operate in your state in case you are called upon to respond to a pipeline emergency.

For more information on these pipeline companies, please contact each company directly. You will find contact information for each company represented throughout the material.

This information only represents the pipeline and/or gas companies who work with our organization to provide training and communication to Emergency Response agencies such as yours. There may be additional pipeline operators in your area that are not represented in this document.

For information and mapping on other Transmission Pipeline Operators please visit the National Pipeline Mapping System (NPMS) at: https://www.npms.phmsa.dot.gov.

For information on other Gas and Utility Operators please contact your appropriate state commission office.

Further product-specific information may be found in the US Department of Transportation (DOT) *Emergency Response Guidebook for First Responders*.

The Guidebook is available at:

https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2024-04/ERG2024-Eng-Web-a.pdf

Pipeline Emergency Response PLANNING INFORMATION

ON BEHALF OF:

Carolina Gas Transmission

East Tennessee Natural Gas / Texas Eastern Transmission L.P. (Enbridge)

Enterprise Products Operating LLC

Sabal Trail Transmission, LLC (Operated by Enbridge)

Southern Natural Gas Company



Note: The enclosed information to assist in emergency response planning is delivered by Paradigm Liaison Services, LLC on behalf of the above sponsoring companies. Visit the National Pipeline Mapping System at https://www.npms.phmsa.dot.gov to determine additional companies operating in your area.

Pipeline Purpose and Reliability

- · Critical national infrastructure
- · Over 2.7 million miles of pipeline provide 65% of our nation's energy
- · 20 million barrels of liquid product used daily
- · 21 trillion cubic feet of natural gas used annually

Safety Initiatives

- · Pipeline location
 - Existing right-of-way (ROW)
- · ROW encroachment prevention
 - · No permanent structures, trees or deeply rooted plants
- · Hazard awareness and prevention methods
- · Pipeline maintenance activities
 - Cleaning and inspection of pipeline system

Product Hazards and Characteristics

Petroleum (flow rate can be hundreds of thousands of gallons per hour)

- · Flammable range may be found anywhere within the hot zone
- · H2S can be a by-product of crude oil

Type 1 Products	<u>Flash Point</u>	Ignition Temperature
Gasoline	- 45 °F	600 °F
Jet Fuel	100 °F	410 °F
Kerosene	120 °F	425 °F
Diesel Fuel	155 °F	varies
Crude Oil	25 °F	varies

Natural Gas (flow rate can be hundreds of thousands of cubic feet per hour)

- · Flammable range may be found anywhere within the hot zone
- · Rises and dissipates relatively quickly
- H2S can be a by-product of natural gas PPM = PARTS PER MILLION

0.02 PPM Odor threshold10.0 PPM Eye irritation

100 PPM Headache, dizziness, coughing, vomiting

200-300 PPM
 500-700 PPM
 700-900 PPM
 Over 1000 PPM
 Respiratory inflammation within 1 hour of exposure Loss of consciousness/possible death in 30-60 min.
 Rapid loss of consciousness; death possible
 Unconsciousness in seconds; death in minutes

- · Incomplete combustion of natural gas may release carbon monoxide
- · Storage facilities may be present around populated areas/can be depleted production facilities or underground caverns

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· Gas travel may be outside the containment vessel along the natural cavern between the pipe and soil

Propane, Butane and Other Similar Products

- Flammable range may be found anywhere within the hot zone
- Products cool rapidly to sub-zero temperatures once outside the containment vessel
- · Vapor clouds may be white or clear

Type 3 Products	Flash Point	Ignition Temperature
Propane	- 150 °F	920-1120 °F
Butane	- 60 °F	725-850 °F

Line Pressure Hazards

- Transmission pipelines steel (high pressure: average 800-1200psi)
- Local gas pipeline transmission steel (high pressure: average 200-1000psi)
- Local gas mains and services steel and/or plastic (low to medium pressure)
 - · Mains: up to 300psi
 - · Service lines: up to regulator
 - Average 30-45psi and below
 - Can be up to 60-100psi in some areas
- · At regulator into dwelling: ounces of pressure

Leak Recognition and Response

- · Sight, sound, smell indicators vary depending on product
- · Diesel engines fluctuating RPMs
- · Black, dark brown or clear liquids/dirt blowing into air/peculiar odors/dead insects around gas line/dead vegetation
- · Rainbow sheen on the water/mud or water bubbling up/frozen area on ground/frozen area around gas meter
- · Any sign, gut feeling or hunch should be respected and taken seriously
- Take appropriate safety actions ASAP

High Consequence Area (HCA) Regulation

- · Defined by pipeline regulations 192 and 195
- · Requires specialized communication and planning between responders and pipeline/gas personnel
- May necessitate detailed information from local response agencies to identify HCAs in area

Emergency Response Basics

- · Always follow pipeline/gas company recommendations pipeline representatives may need escort to incident site
- · Advance preparation
 - Get to know your pipeline operators/tour their facilities if possible
 - · Participate in their field exercises/request on-site training where available
 - Develop response plans and practice
- Planning partners
 - · Pipeline & local gas companies
 - · Police local/state/sheriff
 - Fire companies/HAZMAT/ambulance/hospitals/Red Cross
 - · LEPC/EMA/public officials
 - Environmental management/Department of Natural Resources
 - Army Corps of Engineers/other military officials
 - Other utilities
- · Risk considerations
 - Type/volume/pressure/location/geography of product
 - · Environmental factors wind, fog, temperature, humidity
 - · Other utility emergencies
- Incident response
 - Always approach from upwind/park vehicle a safe distance away/if vehicle stalls DO NOT attempt to restart
 - Gather information/establish incident command/identify command structure
 - · Initiate communications with pipeline/gas company representative ASAP
 - · Control/deny entry: vehicle, boat, train, aircraft, foot traffic, media refer all media questions to pipeline/gas reps

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- Extinguish fires only
 - To aid in rescue or evacuation
 - To protect exposures
 - When controllable amounts of vapor or liquid present
- · Incident notification pipeline control center or local gas company number on warning marker
 - In Pipeline Emergency Response Planning Information Manual
 - · Emergency contact list in Program Guide
 - · Call immediately/provide detailed incident information
- · Pipeline security assist by noting activity on pipeline/gas facilities
 - · Report abnormal activities around facilities
 - Suspicious excavation/abandoned vehicles/non-company personnel/non-company vehicles
 - Freshly disturbed soil/perimeter abnormalities

One-Call

- · One-Call centers are not responsible for marking lines
- · Each state has different One-Call laws. Familiarize yourself with the state you are working in
- Not all states require facility owners to be members of a One-Call
- You may have to contact some facility owners on your own if they are not One-Call members
- In some states, homeowners must call before they dig just like professional excavators

- POTENTIAL HAZARDS -

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- · Many liquids are lighter than water.
- · Substance may be transported hot.
- If molten aluminum is involved, refer to GUIDE 169.

HFAITH

- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/ or toxic gases.
- · Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available appropriate telephone numbers can be found in the Emergency Response Guidebook.
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

 If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.
CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

Small Fire

Dry chemical, CO2, water spray or regular foam.

Large Fire

listed.

· Water spray, fog or regular foam.

PRODUCT: Crude Oil **DOT GUIDEBOOK ID #:** GUIDE #: 128 **PRODUCT:** Diesel Fuel **DOT GUIDEBOOK ID #:** GUIDE #: 128 **PRODUCT:** Jet Fuel **DOT GUIDEBOOK ID #:** GUIDE #: 1863 128 **PRODUCT:** Gasoline **DOT GUIDEBOOK ID #:** GUIDE #: 128 Refer to the Emergency Response

Guidebook for additional products not

 Use water spray or fog; do not use straight streams

EMERGENCY RESPONSE

 Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

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FIRST AID

- · Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- · Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water.
 Do not remove clothing if adhering to skin.
- · Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

POTENTIAL HAZARDS -

FIRE OR EXPLOSION

- EXTREMELY FLAMMABLE...
- Will be easily ignited by heat, sparks or flames
- · Will form explosive mixtures with air.
- Vapors from liquefied gas are initially heavier than air and spread along ground. CAUTION: Hydrogen (UN1049), Deuterium (UN1957), Hydrogen, refrigerated liquid (UN1966) and Methane (UN1971) are lighter than air and will rise. Hydrogen and Deuterium fires are difficult to detect since they burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)
- Vapors may travel to source of ignition and flash back.
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
- · Containers may explode when heated.
- · Ruptured cylinders may rocket.

HEALTH

- Vapors may cause dizziness or asphyxiation without warning.
- Some may be irritating if inhaled at high concentrations.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available appropriate telephone numbers can be found in the Emergency Response Guidebook.
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low

EMERGENCY RESPONSE-

- or confined areas (sewers, basements, tanks).
- · Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Large Spill

 Consider initial downwind evacuation for at least 800 meters (1/2 mile).

Fire

 If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

FIRE

 DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. CAUTION: Hydrogen (UN1049), Deuterium (UN1957) and Hydrogen, refrigerated liquid (UN1966) burn with an invisible flame. Hydrogen and Methane mixture, compressed (UN2034) may burn with an invisible flame.

Small Fire

· Dry chemical or CO2.

PRODUCT: Propane
DOT GUIDEBOOK ID #:

GUIDE #: 115

PRODUCT: Butane

DOT GUIDEBOOK ID #:

1075

GUIDE #: 115

PRODUCT: Ethane

DOT GUIDEBOOK ID #:

ID #: GUIDE #:

PRODUCT: Propylene

DOT GUIDEBOOK ID #:

1075/1077

GUIDE #: 115

PRODUCT: Natural Gas Liquids
DOT GUIDEBOOK ID #: GUIDE #:

1972

GUIDE 3 115

Refer to the Emergency Response Guidebook for additional products not listed.

Large Fire

- · Water spray or fog.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.

- Prevent spreading of vapors through sewers, ventilation systems and confined areas
- Isolate area until gas has dispersed.
 CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.

FIRST AID

- · Move victim to fresh air.
- · Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes
- Clothing frozen to the skin should be thawed before being removed.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- In case of burns, immediately cool affected skin for as long as possible with cold water.
 Do not remove clothing if adhering to skin.
- · Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

POTENTIAL HAZARDS -

FIRE OR EXPLOSION

- EXTREMELY FLAMMABLE.
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- Will form explosive mixtures with air.
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- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
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PUBLIC SAFETY

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EMERGENCY RESPONSE-

- or confined areas (sewers, basements, tanks).
- Keep out of low areas.

PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Large Spill

· Consider initial downwind evacuation for at least 800 meters (1/2 mile).

If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. CAUTION: Hydrogen (UN1049), Deuterium (UN1957) and Hydrogen, refrigerated liquid (UN1966) burn with an invisible flame. Hydrogen and Methane mixture, compressed (UN2034) may burn with an invisible flame.

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Do not direct water at spill or source of

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- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

DOT GUIDEBOOK ID #: GUIDE #: 1971 115

CHEMICAL NAMES:

- Natural Gas
- Methane
- Marsh Gas
- · Well Head Gas
- Fuel Gas
- · Lease Gas
- Sour Gas*

CHEMICAL FAMILY:

Petroleum Hydrocarbon Mix: Aliphatic Hydrocarbons (Alkanes), Aromatic Hydrocarbons, Inorganic Compounds

COMPONENTS:

Methane, Iso-Hexane, Ethane, Heptanes, Propane, Hydrogen Sulfide*, (In "Sour" Gas), Iso-Butane, Carbon, Dioxide, n-Butane, Nitrogen, Pentane Benzene, Hexane, Octanes

Product INFORMATION



The Emergency Response Guidebook is available at: https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2024-04/ERG2024-Eng-Web-a.pdf







This app is only available on the $\ensuremath{\mathsf{App}}$ Store for iOS devices.



Steve Suber Phone: 803-360-1326

Website: https://www.bhegts.com/our-businesses/CGT

BHE GT&S, through its local operating company, Carolina Gas Transmission, LLC (CGT) owns and operates a high-pressure, interstate natural gas pipeline company providing safe, reliable and affordable natural gas transportation services to wholesale customers such as power generators, large industrials, local distribution companies, municipalities, and energy marketers. CGT's nearly 1,500 miles of pipeline throughout South Carolina and a portion of southeast Georgia provides a critical infrastructure link between end users and wholesale supply.

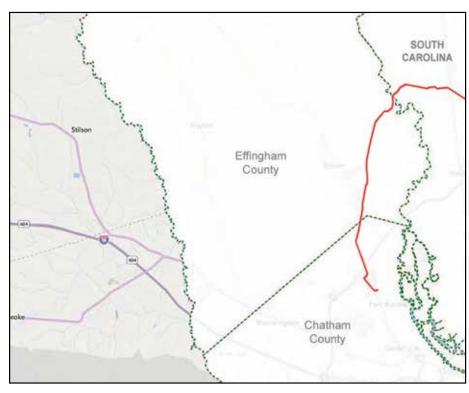
CGT is a transportation-only service provider. This allows CGT customers to manage their commodity risk through the wholesale supply market. CGT's pipeline system is designed to serve Firm Transportation (FT) customers. FT service ensures pipeline capacity is available to transport customers' natural gas supply whenever it is needed, 365 days per year.

Facts:

- Approximately 70% of the natural gas consumed in South Carolina flows through CGT's pipeline system.
- 1,458 miles of natural gas transmission lines in South Carolina and Georgia
- Seven supply interconnects, six compressor stations and 150+ delivery points
- Natural gas supplied through interconnects in the South Carolina upstate, Aiken, South Carolina and near Savannah, Georgia.
- Regulated by the Federal Energy Regulatory Commission (FERC) and the Pipeline Hazardous Material Safety Administration (PHMSA)

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Emergency Responder Online Training Portal: https://bhegts.e-smartresponders.com/



Base map courtesy of openstreetmap.org

EMERGENCY CONTACT: 1-800-789-7272

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:Natural Gas 1971 115

GEORGIA COUNTIES OF OPERATION:

Chatham

Effingham

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







915 N. Eldridge Parkway, Suite 1100 Houston, TX 77079

Public Awareness: 1-888-293-7867 Email: uspublicawareness@enbridge.com

Website: www.enbridge.com

Life takes energy: to heat our homes, to feed our families, to fuel our vehicles. Enbridge connects people to the energy they need to help fuel their quality of life.

In the United States alone, more than two million miles of pipelines deliver petroleum and natural gas products. Every year, Enbridge invests in the latest technology and training to meet the high environmental and safety standards our neighbors expect, and to keep pipelines the safest, most efficient and most reliable way to move energy resources.

Call or click before you dig 811 and ClickBeforeYouDig.com are free services designed to keep you safe when digging. Calling or clicking is always the safest option anytime you are moving dirt. At least two to three business days before your project (depending on state law), simply call 811 or visit www.ClickBeforeYouDig.com with important details about your work, including:

- The type of work you'll be doing and a description of the area
- The date and time your project will begin
- Your worksite's address, the road on which it's located and the nearest intersection
- · Driving directions or GPS coordinates
- Within two to three business days, professional locators will mark underground utility lines—including pipelines (marked with yellow flags or paint)—so you can work around them, saving yourself from possible injury or property damage.

Pipeline location and markers

All pipeline markers provide the name of the pipeline operator, product being transported and a telephone number for reporting pipeline emergencies. These markers should never be used as a reference for a pipeline's exact location.

Emergency responder education program

Enbridge offers a free online education program to provide public safety and local public officials with the information needed to safely and effectively respond to a pipeline emergency. This program focuses on information specific to the disciplines of firefighting, law enforcement, 9-1-1 dispatch, emergency medical services, emergency management and local government. Additionally, course completion may count for statelevel continuing education (CE) credits. Register for the training at www.mypipelinetraining.com.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at https://www.npms.phmsa.dot.gov.



Marker appearance may vary in your area.

What if there is an emergency?

Enbridge facilities are designed to be quickly isolated with block valves for rapid containment in the event of an emergency. We have pre-arranged plans with local emergency personnel and periodically conduct emergency drills with these groups.

EMERGENCY CONTACT: 1-800-231-7794

PRODUCTS/DOT GUIDEBOOK ID#/GUIDE#:

Natural Gas 1971

115

GEORGIA COUNTIES OF OPERATION:

Catoosa Murray Whitfield

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

Incident Command System

Enbridge utilizes the Incident Command System (ICS) for managing a response to an emergency.

The ICS organizational structure is designed to coordinate with other responding agencies and to include those agencies inside a unified Command Post for a coordinated response.

In the event of an emergency

- Abandon any equipment being used in or near the area, moving upwind of the product release
- 2. Warn others to stay away
- 3. If emergency services have not been notified, call 911 and then call the 24-hour pipeline emergency number for your area
- Follow instructions given to you by local emergency responders and Enbridge

Actions Specific to Emergency Officials

- 1. Secure the site and determine a plan to evacuate or shelter in place
- 2. Monitor for hazardous atmospheres
- 3. Control and redirect traffic as needed
- 4. Provide immediate access to Enbridge Pipeline representatives
- 5. Implement your local emergency plan



1100 Louisiana Houston, TX 77002 Public Awareness: 1-888-806-8152 Email: publicawareness@eprod.com Website: www.enterpriseproducts.com

COMPANY INFORMATION, ASSETS & PRODUCTS TRANSPORTED

Enterprise Products Partners L.P. is a leading North American provider of midstream energy services to producers and consumers of natural gas, Natural Gas Liquids (NGL), crude oil, refined products and petrochemicals. Enterprise transports natural gas, NGLs, petrochemicals and crude oil through a network of pipelines throughout the United States.

Our NGL pipelines transport mixed NGLs and other hydrocarbons from natural gas processing facilities, refineries and import terminals to fractionation plants, petrochemical plants, export facilities and refineries.

We also transport Highly Volatile Liquids (HVL), Refined Products, Crude Oil and Natural Gas products.

For additional information about Enterprise, visit www.enterpriseproducts.com.

LOCATING ENTERPRISE PIPELINES - PIPELINE VIEWER TOOL

To find more information regarding location and products transported in our pipelines within one (1) mile of a specific address, visit our website at: www.enterpriseproducts.com/pipelineviewer. Please note the asset map and pipeline viewer tool are for informational purposes only.



You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at www.npms.phmsa.dot.gov.

EMERGENCY RESPONSE PLAN

An Emergency Response Plan is developed for each pipeline facility to contain, control and mitigate the various types of emergency conditions/ situations that could occur at one of our facilities. For more information regarding Enterprise Products emergency response plans and procedures, contact us at publicawareness@eprod.com.

EMERGENCY RESPONSE CAPABILITIES

The Company's qualified personnel are trained in safe operations and emergency response activities and participate in exercises reflecting various types of emergency scenarios and environmental sensitivities. The Company utilizes the First Responder/Emergency Response Team concept to handle emergency incidents at its facilities. Employees receive hands on training in fire fighting, hazardous material spill response and rescue/medical/first aid training. In addition, we maintain a well trained team of employees from various Company locations as members of the Corporate Emergency Organization. This team, as well as an array of emergency response equipment (including, but not limited to, cell phones, fire extinguisher, supplied breathing air, and air monitoring equipment), can be mobilized and deployed to assist in handling emergency situations that may occur at a Company facility or pipeline location.

Enterprise Products utilizes its 24-hour/365 day a year, Pipeline Operations Control Center (888-883-6308) as a hub of communications in emergency response situations. Our manned control center monitors the flow, pressure, temperatures, and other conditions throughout the pipeline systems and is an integral part of our communication during emergency situations.

EMERGENCY CONTACT: 1-888-883-6308

PRODUCTS/DOT GUIDEBOOK ID#/GUIDE#:

Propane

1075

115

GEORGIA COUNTIES OF OPERATION:

Bacon Meriwether **Butts** Pike Coffee Putnam Columbia Randolph Dougherty Stewart Greene **Talbot** Hancock Taliaferro Terrell Harris Irwin Tift Warren Jasper Webster Lamar McDuffie Worth

Muscogee

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

ENTERPRISE PRODUCTS' RESPONSE IN AN EMERGENCY

- We will immediately dispatch personnel to help handle the emergency at the site.
- We will provide information to public safety officials to aid in their response to the emergency.
- We will take necessary operating actions such as closing and opening valves to minimize the impact of the leak.
- Public safety personnel and others unfamiliar with the pipeline should not attempt to operate any of the valves on the pipeline, unless instructed to do so by Enterprise Products personnel. Improper operation of the pipeline valves could make the situation worse and cause other accidents to happen.

Enterprise Products Operating, LLC

INCIDENT COMMAND SYSTEM

Enterprise Products utilizes an expandable Incident Command System. Depending upon the size and complexity of an incident, additional Company or contract personnel may be added as needed. Additional federal, state or local agencies may be integrated into the Incident Command System by utilizing a Unified Command Structure.

SPILL RESPONSE EQUIPMENT CAPABILITIES

We maintain emergency response equipment at some of our facilities. We also have agreements with various oil spill response organizations to provide the appropriate level of response with spill response equipment including trailers containing spill booms, sorbent materials, boats, motors, hand tools, power tools, pumps, hoses, personal protective equipment, first aid and miscellaneous supplies. These companies also have expert personnel trained in emergency response and cleanup methods.

CONTACTS

Tobey Hardin

1345 Old 41 Highway
Milner, GA 30257
Phone: 678-408-6701
Email: thardin@eprod.com
Counties of responsibility: Bacon, Butts,
Coffee, Dougherty, Greene, Hancock,
Harris, Irwin, Jasper, Lamar, Muscogee,
Meriwether, Pike, Putnam, Randolph,
Stewart, Talbot, Terrell, Tift, Webster,
Worth

Dale Davis

4609 Augusta Road Lexington, SC 29073 Phone: 803-358-4106 Email: ddavis@eprod.com

Counties of responsibility: Columbia,

McDuffie, Taliaferro, Warren

Sabal Trail Transmission, LLC (Operated by Enbridge)



915 N. Eldridge Parkway, Suite 1100 Houston, TX 77079

Public Awareness: 1-888-293-7867 Email: uspublicawareness@enbridge.com Website: https://sabaltrailtransmission.com

Life takes energy: to heat our homes, to feed our families, to fuel our vehicles. Enbridge connects people to the energy they need to help fuel their quality of life.

In the United States alone, more than two million miles of pipelines deliver petroleum and natural gas products. Every year, Enbridge invests in the latest technology and training to meet the high environmental and safety standards our neighbors expect, and to keep pipelines the safest, most efficient and most reliable way to move energy resources.

Call or click before you dig
811 and ClickBeforeYouDig.com are
free services designed to keep you safe
when digging. Calling or clicking is always
the safest option anytime you are moving
dirt. At least two to three business days
before your project (depending on state
law), simply call 811 or visit
www.ClickBeforeYouDig.com with
important details about your work,
including:

- The type of work you'll be doing and a description of the area
- The date and time your project will begin
- Your worksite's address, the road on which it's located and the nearest intersection
- Driving directions or GPS coordinates
- Within two to three business days, professional locators will mark underground utility lines—including pipelines (marked with yellow flags or paint)—so you can work around them, saving yourself from possible injury or property damage.

Pipeline location and markers

All pipeline markers provide the name of the pipeline operator, product being transported and a telephone number for reporting pipeline emergencies.

Emergency responder education program

Enbridge offers a free online education program to provide public safety and local public officials with the information needed to safely and effectively respond to a pipeline emergency. This program focuses on information specific to the disciplines of firefighting, law enforcement, 9-1-1 dispatch, emergency medical services, emergency management and local government. Additionally, course completion may count for statelevel continuing education (CE) credits. Register for the training at www.mypipelinetraining.com.

These markers should never be used as a reference for a pipeline's exact location. You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at https://www.npms.phmsa.dot.gov.



Marker appearance may vary in your area.

What if there is an emergency?

Enbridge facilities are designed to be quickly isolated with block valves for rapid containment in the event of an emergency. We have pre-arranged plans with local emergency personnel and periodically conduct emergency drills with these groups.

EMERGENCY CONTACT: 1-888-568-7269

PRODUCTS/DOT GUIDEBOOK ID#/GUIDE#:

Natural Gas

1971

115

GEORGIA COUNTIES OF OPERATION:

Brooks Mitchell
Colquitt Stewart
Dougherty Terrell
Lee Webster

Lowndes

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

Incident Command System

Enbridge utilizes the Incident Command System (ICS) for managing a response to an emergency.

The ICS organizational structure is designed to coordinate with other responding agencies and to include those agencies inside a unified Command Post for a coordinated response.

In the event of an emergency

- Abandon any equipment being used in or near the area, moving upwind of the product release
- 2. Warn others to stay away
- 3. If emergency services have not been notified, call 911 and then call the 24-hour pipeline emergency number for your area
- Follow instructions given to you by local emergency responders and Enbridge

Actions Specific to Emergency Officials

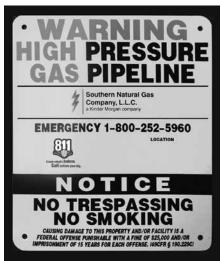
- 1. Secure the site and determine a plan to evacuate or shelter in place.
- 2. Monitor for hazardous atmospheres
- 3. Control and redirect traffic as needed
- 4. Provide immediate access to Enbridge Pipeline representatives
- 5. Implement your local emergency plan

Website: www.kindermorgan.com



KEY COMPONENTS OF THE KINDER MORGAN PIPELINE GROUP'S SAFETY PROGRAM

The Kinder Morgan Pipeline Group invests substantial human and financial resources in efforts to ensure the integrity of its system. We feel the best emergency response system begins with prevention and continuous monitoring. However, in the event of an emergency, we implement well-defined and extensively tested response plans. Here's an outline of Kinder Morgan Pipeline Group's emergency response preparedness program:





WHAT DOES THE KINDER MORGAN **PIPELINE GROUP DO IN AN EMERGENCY?**

We first determine necessary steps to protect life and property, and we call 911. Our immediate next step is to isolate the affected section of pipe, shut off the flow of gas, and allow the remaining gas, which is lighter than air, to dissipate. Concurrently, we assemble a team of experts from various areas of our company to address the emergency. Our main concern is the safety of the community and the response team. Once all safety issues are addressed, we begin assessing any property damage resulting from the incident. Further, we preserve the integrity of the site and work closely with local, state, and federal agencies to determine the cause of the incident and appropriate remedial measures.

WHAT DO THE KINDER MORGAN **PIPELINE GROUP'S EMERGENCY RESPONSE PLANS COVER?**

The plans outline the steps to be taken in the event of a fire, rupture, major leak, or serious incident occurring at or near one of our facilities. The plans are developed to prepare our employees and local emergency response personnel to handle emergency situations involving our facilities and to protect the public. The plans outline the roles and responsibilities of company, contractor, and local response personnel. Communication and cooperation with local organizations are key components of the emergency response plans, and the feedback from these interactions is used in the development and revision of these plans.

HOW DOES THE KINDER MORGAN PIPELINE GROUP'S SAFETY RECORD COMPARE TO OTHERS IN THE NATURAL GAS PIPELINE **BUSINESS?**

The Kinder Morgan Pipeline Group is a leader in safety and compliance. The company's efforts include continuous computer monitoring, ongoing visual

EMERGENCY CONTACT: 1-800-252-5960

PRODUCTS/DOT GUIDEBOOK ID#/GUIDE#: 115

Natural Gas 1971

GEORGIA COUNTIES OF OPERATION:

Appling	Henry
Baldwin	Irwin
Ben Hill	Jeff Davis
Berrien	Jefferson
Bibb	Jenkins
Bleckley	Jones
Brooks	Lamar
Bryan	Laurens
Burke	Lee
Calhoun	Liberty
Camden	Long
Carroll	Lowndes
Catoosa	McDuffie
Charlton	McIntosh
Chatham	Miller
Clay	Mitchell
Clayton	Monroe
Cobb	Murray Polk
Coffee	Randolph
Colquitt	Richmond
Cook	Screven
Crawford	Seminole
Crisp	Spaulding
Decatur	Stewart
Dooley	Sumter
Dougherty	Talbot
Douglas	Terrell
Early	Thomas
Effingham	Tift Turner
Elbert	Twiggs
Fayette	Upson
Floyd	Warren
Fulton	Washington
Glascock	Wayne
Glynn	Webster
Gordon	Wheeler
Grady	Whitfield
Haralson	Wilkes
Hart	Worth

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

Southern Natural Gas Company

surveillance, corrosion protection, and public awareness education. The company dedicates thousands of hours a month to maintaining safe and reliable pipelines.

With security concerns raised after 9/11, Kinder Morgan Pipeline Group is limiting distribution of detail maps. However, you may obtain access to view maps for these pipelines by following the instructions on

http://www.npms.phmsa.dot.gov/

For more information on the location of Kinder Morgan Pipeline Group (Colorado Interstate Gas, El Paso Natural Gas, Southern Natural Gas and Tennessee Gas Pipeline Company) pipelines, please contact the local pipeline company office in your area.

CONTACTS:

For additional information contact the following:

Carol Parramore

Southern Natural Gas Company 143 West Pinetree Blvd Thomasville, GA 31792 (229) 226-4744 ext. 2023 (229) 224-1461 (Cell)

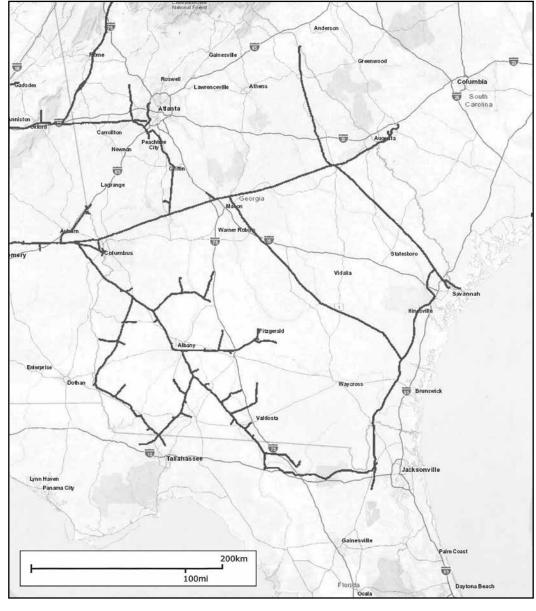
Counties: Bacon, Ben Hill, Berrien, Brooks, Calhoun, Carroll, Catoosa, Clay Clayton, Cobb, Coffee, Colquitt, Cook, Crisp, Dooley, Decatur, Dougherty, Douglas, Early, Floyd, Fulton, Gordon, Grady, Haralson, Henry, Irwin, Lamar, Lee, Lowndes, Miller, Mitchell, Murray Polk, Randolph, Seminole, Spaulding, Stewart, Sumter, Talbot, Terrell, Thomas, Tift Turner, Upson, Webster, Whitfield, Worth

Joel Mittendorf

Southern Natural Gas Company 5675 Arkwright Rd. Macon, GA 31210 Phone: (478) 216-9331 ext 29331

Cell: (770) 468-6046

Counties: Appling, Baldwin, Bibb, Bleckley, Bryan, Burke, Camden, Charlton, Chatham, Crawford, Effingham, Elbert, Glascock, Glynn Long, Hart, Jeff Davis, Jefferson, Jenkins, Jones, Laurens, Liberty, Screven, McDuffie, McIntosh, Monroe, Richmond, Twiggs, Warren, Washington, Wayne, Wheeler, Wilkes



Emergency Response

Emergency Response Plans for Gas and Hazardous Liquid Pipeline Operators

Federal regulations for both gas and hazardous liquid pipelines require operators to have written procedures for responding to emergencies involving their pipeline facility. Because pipelines are often located in public space, the regulations further require that operators include procedures for planning with emergency and other public officials to ensure a coordinated response. Please contact your local pipeline operators for information regarding their company specific emergency response plan.

Natural Gas

Each operator shall establish written procedures to minimize the hazard resulting from a gas pipeline emergency. At a minimum, the procedures must provide for the following:

- · Receiving, identifying, and classifying notices of events which require immediate response by the operator.
- Establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials.
- Prompt and effective response to a notice of each type of emergency, including the following:
 - 1. Gas detected inside or near a building.
 - 2. Fire located near or directly involving a pipeline facility.
 - Explosion occurring near or directly involving a pipeline facility.
 - 4. Natural disaster.
- The availability of personnel, equipment, tools, and materials, as needed at the scene of an emergency.
- Actions directed toward protecting people first and then property.
- Emergency shutdown and pressure reduction in any section of the operator's pipeline system necessary to minimize hazards to life or property.
- Making safe any actual or potential hazard to life or property.
- Notifying appropriate fire, police, and other public officials of gas pipeline emergencies and coordinating with them both planned responses and actual responses during an emergency.
- Safely restoring any service outage.
- · Each operator shall establish and maintain liaison with appropriate fire, police, and other public officials to:
 - 1. Learn the responsibility and resources of each government organization that may respond to a gas pipeline emergency;
 - 2. Acquaint the officials with the operator's ability in responding to a gas pipeline emergency;
- 3. Identify the types of gas pipeline emergencies of which the operator notifies the officials; and
- 4. Plan how the operator and officials can engage in mutual assistance to minimize hazards to life or property.

*Reference 49 CFR 192.615

Hazardous Liquids

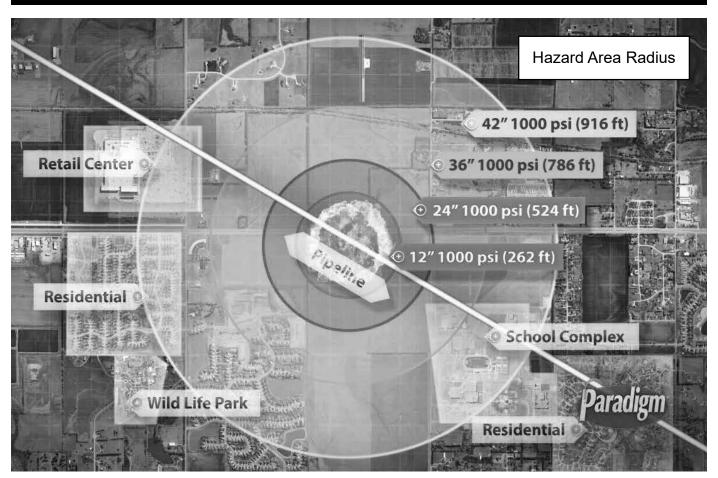
(a) **General:** Each operator shall prepare and follow for each pipeline system a manual of written procedures for conducting normal operations and maintenance activities and handling abnormal operations and emergencies. This manual shall be reviewed at intervals not exceeding 15 months, but at least once each calendar year, and appropriate changes made as necessary to insure that the manual is effective. This manual shall be prepared before initial operations of a pipeline system commence, and appropriate parts shall be kept at locations where operations and maintenance activities are conducted.

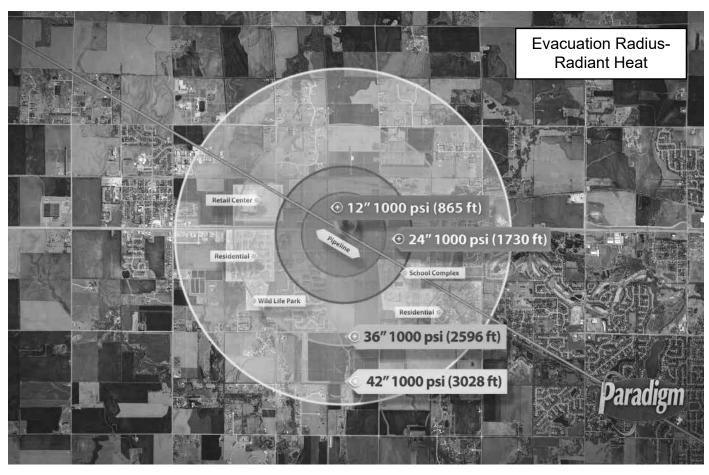
Emergencies. The manual required by paragraph (a) of this section must include procedures for the following to provide safety when an emergency condition occurs:

- Receiving, identifying, and classifying notices of events which need immediate response by the operator or notice to fire, police, or other appropriate public officials and communicating this information to appropriate operator personnel for corrective action.
- Prompt and effective response to a notice of each type emergency, including fire or explosion occurring near or directly involving a pipeline facility, accidental release of hazardous liquid or carbon dioxide from a pipeline facility, operational failure causing a hazardous condition, and natural disaster affecting pipeline facilities.
- Having personnel, equipment, instruments, tools, and material available as needed at the scene of an emergency.
- Taking necessary action, such as emergency shutdown or pressure reduction, to minimize the volume of hazardous liquid
 or carbon dioxide that is released from any section of a pipeline system in the event of a failure.
- Control of released hazardous liquid or carbon dioxide at an accident scene to minimize the hazards, including possible intentional ignition in the cases of flammable highly volatile liquid.
- Minimization of public exposure to injury and probability of accidental ignition by assisting with evacuation of residents and assisting with halting traffic on roads and railroads in the affected area, or taking other appropriate action.
- Notifying fire, police, and other appropriate public officials of hazardous liquid or carbon dioxide pipeline emergencies and coordinating with them preplanned and actual responses during an emergency, including additional precautions necessary for an emergency involving a pipeline system transporting a highly volatile liquid.
- In the case of failure of a pipeline system transporting a highly volatile liquid, use of appropriate instruments to assess the extent and coverage of the vapor cloud and determine the hazardous areas.
- Providing for a post accident review of employee activities to determine whether the procedures were effective in each emergency and taking corrective action where deficiencies are found.

*Reference 49 CFR 195.402

Emergency Response





NENA Pipeline Emergency Operations - Call Intake Checklist

In accordance with NENA Pipeline Emergency Operations Standard/Model Recommendation NENA 56-007 (https://www.nena.org/?page=PipelineEmergStnd)

GOALS FOR INITIAL INTAKE:

- 1. Obtain and Verify Incident Location, Callback and Contact Information
- 2. Maintain Control of the Call
- 3. Communicate the Ability to HELP the Caller
- Methodically and Strategically Obtain Information through Systematic Inquiry to be Captured in the Agency's Intake Format
- 5. Recognize the potential urgency of situations involving the release of dangerous gases or liquids related to pipelines or similar events of this nature and immediately begin the proper notifications consistent with agency policy
- 6. Perform all Information Entries and Disseminations, Both Initial and Update

FIRST RESPONSE CALL INTAKE CHECKLIST

The focus of this Standard is on the first minute of the call intake process. Actions taken during this time frame significantly impact the effectiveness of the response and are critical to public safety.

The following protocol is intended as a solid framework for call intake, but should not in any manner rescind or override agency procedures for the timing of broadcasts and messaging.

These procedures are established as recommended practices to consider with existing agency policy and procedure to ensure the most swift and accurate handling of every incident involving the release of dangerous gases or hazardous liquids.

All information should be simultaneously entered, as it is obtained by the telecommunicator, into an electronic format (when available) that will feed/populate any directed messages which will be sent to emergency responders in conjunction with onair broadcasts.

Location:

Request exact location of the incident (structure addresses, street names, intersections, directional identifiers, mile posts, etc.) and obtain callback and contact information.

Determine Exactly What Has Happened:

Common signs of a pipeline leak are contained in Table 1 below. If any of these conditions are reported, THIS IS A PIPELINE EMERGENCY.

TABLE 1
Common Indications of a Pipeline Leak

Condition	Natural Gas (lighter than air)	LPG & HVL (heavier than air)	Liquids
An odor like rotten eggs or a burnt match	Х	Х	
A loud roaring sound like a jet engine	X	X	
A white vapor cloud that may look like smoke		Х	
A hissing or whistling noise	Х	Х	
The pooling of liquid on the ground			Х
An odor like petroleum liquids or gasoline		X	Х
Fire coming out of or on top of the ground	Х	X	
Dirt blowing from a hole in the ground	Х	X	
Bubbling in pools of water on the ground	Х	Х	
A sheen on the surface of water		Х	Х
An area of frozen ground in the summer	Х	Х	
An unusual area of melted snow in the winter	Х	Х	
An area of dead vegetation	Х	Х	Х

PSAP - Notification of Potential Rupture Rule

From April Heinze at NENA October 2022

A recent change made at the federal level will begin to impact your Emergency Communications Center (ECC) very soon. In April 2022, the Pipeline and Hazardous Materials Safety Administration (PHMSA), a subset of the National Highway Traffic Safety Administration (NHTSA), updated a rule for Pipeline Operators. The rule went into effect on October 5, 2022. The PHMSA rule is 49 CFR § 192.615(a)(8) and § 195.402(e)(7). It requires pipeline operators to contact the appropriate PSAP immediately upon notification of a potential rupture. The rule specifies the following:

A Notification of Potential Rupture is an observation of any unanticipated or unexplained:

- Pressure loss outside of the pipeline's normal operating pressure
- Rapid release of a large volume of a commodity (e.g., natural gas or hazardous liquid)
- · Fire or explosion in the immediate vicinity

ECCs will begin to receive calls from pipeline operators for situations that may not be dispatchable. Of the three potential rupture notifications, the "pressure loss outside of the pipeline's normal operating pressure" will be the most difficult for responders to locate and mitigate. The operators will contact the ECC at the same time they are sending a technician to check the potential problem and determine the actual location. Many pipeline segments span an extensive area that could cross multiple ECC and Fire Department boundaries. Based on recent discussions with pipeline operators, they will call ECCs to fulfill the rule requirements to place the ECC on standby for a potential problem. They also want the ECC to contact them if the ECC receives any calls that may confirm there is a problem.

PHMSA and pipeline operators lack an understanding of local ECC and first responder policies and procedures. Some pipeline operators have already sent letters to ECCs that serve the areas their pipeline infrastructure is located. It does not appear that PHMSA engaged the ECC community before adopting the rule, nor have they communicated this information to the responder community.

So, what does this mean for your ECC? ECCs are responsible for intaking information and dispatching appropriate resources. They are not in the habit of intaking details of a potential emergency and doing nothing with it. To do nothing creates liability issues for your ECC. ECC Managers should work with local Fire Departments to develop local policy regarding handling these calls. The policy will need to address whether to hold the information until further information is provided from the pipeline operator or, if a dispatch is to be made, what resources need to be sent. The policy should also address how to properly notify the pipeline operator if the ECC or responders discover that a potential rupture is, in fact, an actual rupture. ECC management should incorporate pipeline maps into their local GIS systems or maintain a map easily accessible to call-takers of the pipeline infrastructure within their jurisdiction. PHMSA has a pipeline mapping system that ECCs can use, https://www.npms.phmsa.dot.gov/. In addition, the ECC should consider specific questions within their call intake guides.

Specific Questions that ECCs may want to incorporate for potential rupture situations include:

- 1. What commodity might be leaking, and how severe does the potential leak appear?
- 2. What is the point-to-point location span of the potential rupture?
- 3. Is any special equipment needed for responders to mitigate the potential problem?

To comply with the new PHMSA rule, pipeline operators must contact ECCs reliably. Some pipeline operators are local or regional companies with existing relationships with the ECCs in their area. However, many pipeline operators serve a large geographic area and may not have established relationships with every ECC within their service area. Those pipeline operators may utilize the NENA Enhanced PSAP Registry and Census (EPRC) to obtain PSAP contact information. NENA strongly encourages you to verify the accuracy of your PSAP's contact information in the EPRC database. ECC 24/7/365 emergency contact number(s) should be 10-digit lines answered as quickly as possible. Callers should not be required to interact with a phone tree or wait on hold if possible. Access to the EPRC is free for ECCs. To learn more and to request user accounts if you do not already use the EPRC, visit nena.org/eprc.

Pipelines In Our Community

According to National Transportation Safety Board statistics pipelines are the safest and most efficient means of transporting natural gas and petroleum products, which are used to supply roughly two-thirds of the energy we use. These pipelines transport trillions of cubic feet of natural gas and hundreds of billions of ton/miles of liquid petroleum products in the United States each year.

This system is comprised of three types of pipelines: transmission, distribution and gathering. The approximately 519,000 miles of transmission pipeline* transport products, including natural gas and petroleum products, across the country and to storage facilities. Compressor stations and pumping stations are located along transmission and gathering pipeline routes and help push these products through the line.

Approximately 2.2 million miles of distribution pipeline* is used to deliver natural gas to most homes and businesses through underground main and utility service lines. Onshore gathering lines are pipelines that transport gas from a current production operation facility to a transmission line or main. Production operations are piping and equipment used in production and preparation for transportation or delivery of hydrocarbon gas and/or liquids.

*mileage according to the Pipeline Hazardous Materials Safety Administration (PHMSA).

Pipeline Markers

The U.S. Department of Transportation (DOT) requires the use of signs to indicate the location of underground pipelines. Markers like these are located on road, railroad, and navigable waterway crossings. Markers are also posted along the pipeline right-of-way.

The markers display:

- · The material transported
- The name of the pipeline operator
- The operator's emergency number

MARKER INFORMATION

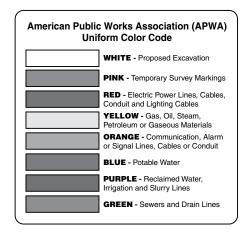
- · Indicates area of pipeline operations
- May have multiple markers in single right-of-way
- · May have multiple pipelines in single right-of-way
- · DOES NOT show exact location
- DOES NOT indicate depth (never assume pipeline depth)
- DOES NOT indicate pipeline pressure



Call Before You Dig

Statistics indicate that damage from excavation related activities is a leading cause of pipeline accidents. If you are a homeowner, farmer, excavator, or developer, we need your help in preventing pipeline emergencies.

- 1. Call your state's One-Call center before excavation begins regulatory mandate as state law requires.
- 2. Wait the required amount of time.
- 3. A trained technician will mark the location of the pipeline and other utilities (private lines are not marked).
- 4. Respect the marks.
- 5. Dig with care.



National One-Call Dialing Number:



For More Details Visit: www.call811.com

Signs Of A Pipeline Release

SIGHT*

- · Liquid on the ground
- · Rainbow sheen on water
- · Dead vegetation in an otherwise green area
- · Dirt blowing into the air
- · White vapor cloud
- · Mud or water bubbling up
- · Frozen area on ground
- *Signs vary based upon product

SMELL

- · Odors such as gas or oil
- · Natural gas is colorless and odorless
 - · Unless Mercaptan has been added (rotten egg odor)

OTHER-NEAR PIPELINE OPERATIONS

- Burning eyes, nose or throat
- Nausea

What To Do If A Leak Occurs

- · Evacuate immediately upwind
- · Eliminate ignition sources
- · Advise others to stay away
- CALL 911 and the pipeline company number on warning marker
 - Call collect if necessary
- · Make calls from safe distance not "hot zone"
- Give details to pipeline operator:
 - Your name
 - Your phone number
 - Leak location
 - Product activity
 - Extent of damage
- · DO NOT drive into leak or vapor cloud
- · DO NOT make contact with liquid or vapor
- DO NOT operate pipeline valves (unless directed by pipeline operator):
 - Valve may be automatically shut by control center
 - Valve may have integrated shut-down device

· Valve may be operated by qualified pipeline personnel only, unless specified otherwise

SOUND

A hissing or roaring sound

- Ignition sources may vary a partial list includes:
 - Static electricity
 - Metal-to-metal contact
 - Pilot lights
 - Matches/smoking
 - Sparks from telephone
 - Electric switches
 - Electric motors
 - Overhead wires
 - Internal combustion engines
 - · Garage door openers
 - Firearms
 - · Photo equipment
 - Remote car alarms/door locks
 - High torque starters diesel engines
 - Communication devices

Pipeline Emergency

Call Gas Control Or Pipeline Control Center

Use Pipeline Emergency Response Planning Information Manual for contact information Phone number on warning markers Use state One-Call System, if applicable

Control Center Needs To Know

Your name & title in your organization Call back phone number - primary, alternate Establish a meeting place Be very specific on the location (use GPS) Provide City, County and State

Injuries, Deaths, Or Property Damage

Have any known injuries occurred? Have any known deaths occurred? Has any severe property damage occurred?

Traffic & Crowd Control

Secure leak site for reasonable distance Work with company to determine safety zone No traffic allowed through any hot zone Move sightseers and media away Eliminate ignition sources

Is the leak area on fire? Has anything else caught on fire besides the leak?

Evacuations

Primary responsibility of emergency agency Consult with pipeline/gas company

Fire Management

Natural Gas - DO NOT put out until supply stopped **Liquid Petroleum –** water is NOT recommended; foam IS recommended Use dry chemical, vaporizing liquids, carbon dioxide

Ignition Sources

Metal-to-metal contact Pilot lights, matches & smoking, sparks from phone

Static electricity (nylon windbreaker)

Electric switches & motors

Overhead wires

Internal combustion engines

Garage door openers, car alarms & door locks

Firearms

Photo equipment

High torque starters – diesel engines

Communication devices - not intrinsically safe

High Consequence Areas Identification*

Pipeline safety regulations use the concept of "High Consequence Areas" (HCAs), to identify specific locales and areas where a release could have the most significant adverse consequences. Once identified, operators are required to devote additional focus, efforts, and analysis in HCAs to ensure the integrity of pipelines.

Releases from pipelines can adversely affect human health and safety, cause environmental degradation, and damage personal or commercial property. Consequences of inadvertent releases from pipelines can vary greatly, depending on where the release occurs, and the commodity involved in the release.

What criteria define HCAs for pipelines?

Because potential consequences of natural gas and hazardous liquid pipeline releases differ, criteria for HCAs also differ. HCAs for natural gas transmission pipelines focus solely on populated areas. (Environmental and ecological consequences are usually minimal for releases involving natural gas.) Identification of HCAs for hazardous liquid pipelines focuses on populated areas, drinking water sources, and unusually sensitive ecological resources.

HCAs for hazardous liquid pipelines:

- Populated areas include both high population areas (called "urbanized areas" by the U.S. Census Bureau) and other populated areas (areas referred to by the Census Bureau as a "designated place").
- Drinking water sources include those supplied by surface water or wells and where a secondary source of water

- supply is not available. The land area in which spilled hazardous liquid could affect the water supply is also treated as an HCA.
- Unusually sensitive ecological areas include locations where critically imperiled species can be found, areas where multiple examples of federally listed threatened and endangered species are found, and areas where migratory water birds concentrate.

HCAs for natural gas transmission pipelines:

- An equation has been developed based on research and experience that estimates the distance from a potential explosion at which death, injury or significant property damage could occur. This distance is known as the "potential impact radius" (or PIR), and is used to depict potential impact circles.
- Operators must calculate the potential impact radius for all points along their pipelines and evaluate corresponding impact circles to identify what population is contained within each circle.
- Potential impact circles that contain 20 or more structures intended for human occupancy; buildings housing populations of limited mobility; buildings that would be hard to evacuate. (Examples are nursing homes, schools); or buildings and outside areas occupied by more than 20 persons on a specified minimum number of days each year, are defined as HCA's.

Identified Sites*

Owners and companies of gas transmission pipelines are regulated by the US Department of Transportation (DOT). According to integrity management regulations, gas pipeline companies are required to accept the assistance of local public safety officials in identifying certain types of sites or facilities adjacent to the pipeline which meets the following criteria:

- (a) A small, well-defined outside area that is occupied by twenty or more persons on at least 50 days in any twelve-month period (the days need not be consecutive). Examples of such an area are playgrounds, parks, swimming pools, sports fields, and campgrounds.
- (b) A building that is occupied by 20 or more persons on at least 5 days a week for 10 weeks in any 12 month period (the days and weeks need not be consecutive). Examples included in the definition are: religious facilities, office buildings, community centers, general stores, 4-H facilities, and roller rinks.
- (c) A facility that is occupied by persons who are confined, are of impaired mobility, or would be difficult to evacuate. Examples of such a facility are hospitals, schools, elder care, assisted living/nursing facilities, prisons and child daycares.

Sites within your jurisdiction will fit the above requirements, please go to my.spatialobjects.com/admin/register/ISR to provide this valuable information to pipeline companies.

* 49 CFR §192.903.

IDENTIFIED SITE REGISTRY

Pipeline operators need your help keeping people and property safe.

Identified Sites - locations where many people occupy an area near a pipeline asset or facility. These are places where people may gather from time to time for a variety of reasons.

Some of these sites are very difficult for companies to obtain without help from those with local knowledge of the area.

Please use the following website to gain secure access, so you can assist in identifying sites where people congregate in your community:

my.spatialobjects.com/admin/register/ISR

Pipeline operators are required by law to work with public officials who have safety or emergency response, or planning responsibilities that can provide quality information regarding identified sites.



^{*} https://primis.phmsa.dot.gov/comm/FactSheets/FSHCA.htm

Maintaining Safety and Integrity of Pipelines

Pipeline companies invest 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. Pipeline companies also utilize aerial surveillance and/or on-ground observers to identify 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 companies have developed supplemental hazard and assessment programs known as Integrity Management Programs (IMPs). IMPs have been implemented for areas designated as "high consequence areas" (HCAs) in accordance with federal regulations. Specific information about companies' programs may be found on their company web sites or by contacting them directly.

How You Can Help Keep Pipelines Safe

While accidents pertaining to pipeline facilities are rare, awareness of the location of the pipeline, the potential hazards, and what to do if a leak occurs can help minimize the number of accidents. A leading cause of pipeline incidents is third-party excavation damage. Pipeline companies are responsible for the safety and security of their respective pipelines. To help maintain the integrity of pipelines and their right-of-way, it is essential that pipeline and facility neighbors protect against unauthorized excavations or other destructive activities. You can help by:

- Being aware of any unusual or suspicious activities or unauthorized excavations taking place within or near the pipeline right-of-way or pipeline facility.
 - Develop contacts and relationships with pipeline company representatives, i.e. participate in mock drill exercises with your local pipeline company.
 - Share intelligence regarding targeting of national infrastructure, and specific threats or actual attacks against pipeline companies.

- Assist with security steps for pipeline facilities during heightened national threat levels, i.e., increased surveillance near facilities.
- Monitor criminal activity at the local level that could impact pipeline companies, and anti-government/ pipeline groups and other groups seeking to disrupt pipeline company activities.
- Keeping the enclosed fact sheets for future reference.
- Attending an emergency response training program in your area.
- Familiarizing yourself and your agency with the Pipelines and Informed Planning Alliance (PIPA) best practices regarding land use planning near transmission pipelines.
- Completing and returning the enclosed postage-paid survey.
- Report to the pipeline company localized flooding, ice dams, debris dams, and extensive bank erosion that may affect the integrity of pipeline crossings.

National Pipeline Mapping System (NPMS)

The National Pipeline Mapping System (NPMS) is a geographic information system created by the U.S. Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA), Office of Pipeline Safety (OPS) in cooperation with other federal and state governmental agencies and the pipeline industry to provide information about companies and their pipelines. The NPMS web site is searchable by ZIP Code or by county and state, and can display a printable county map.

Within the NPMS, PHMSA has developed the Pipeline Integrity Management Mapping Application (PIMMA) for use by pipeline companies and federal, state, and

local government officials only. The application contains sensitive pipeline infrastructure information that can be viewed via internet browsers. Access to PIMMA is limited to federal, pipeline companies. PIMMA access cannot be given to any person who is not a direct employee of a government agency.

For a list of companies with pipelines in your area and their contact information, or to apply for PIMMA access, go to npms.phmsa.dot.gov. Companies that operate production facilities, gas/liquid gathering piping, and distribution piping are not represented by NPMS nor are they required to be.

Training Center

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Supplemental training available for agencies and personnel that are unable to attend:

- Train as your schedule allows
- Download resources including pipeline operator specific information
 - Sponsoring pipeline operator contact information
 - · Product(s) transported

- Submit Agency Capabilities Survey
- · Receive Certificate of Completion

Visit https://trainingcenter.pdigm.com/ to register for training



Pipeline Damage Reporting Law / Websites

PIPELINE DAMAGE REPORTING LAW AS OF 2007

H.R. 2958 Emergency Alert Requirements

Any person, including a government employee or contractor, who while engaged in the demolition, excavation, tunneling, or construction in the vicinity of a pipeline facility;

- **A.** Becomes aware of damage to the pipeline facility that may endanger life or cause serious bodily harm or damage to property; or
- **B.** Damages the pipeline facility in a manner that may endanger life or cause serious bodily harm or damage to property, shall promptly report the damage to the operator of the facility and to other appropriate authorities.

Websites:

Association of Public-Safety Communications Officials - International (APCO) www.apcointl.org/

Common Ground Alliance www.commongroundalliance.com

Federal Emergency Management Agency www.fema.gov

Federal Office of Pipeline Safety www.phmsa.dot.gov

Government Emergency Telecommunications www.dhs.gov/government-emergency-telecommunications-service-gets

Infrastructure Protection – NIPC www.dhs.gov/national-infrastructure-protection-plan

National Emergency Number Association www.nena.org/?

National Fire Protection Association (NFPA) www.nfpa.org

> National Pipeline Mapping System https://www.npms.phmsa.dot.gov

National Response Center www.nrc.uscg.mil or 800-424-8802

Paradigm Liaison Services, LLC www.pdigm.com

United States Environmental Protection Agency (EPA)

www.epa.gov/cameo

Wireless Information System for Emergency Responders (WISER) www.wiser.nlm.nih.gov

FOR MORE INFORMATION ON THE NASFM PIPELINE EMERGENCIES PROGRAM www.pipelineemergencies.com

FOR EMERGENCY RESPONSE INFORMATION, REFER TO DOT GUIDEBOOK. FOR COPIES: (202) 366-4900

www.phmsa.dot.gov/hazmat/erg/emergency-response-guidebook-erg

About Paradigm

Paradigm is public awareness. We provide public awareness and damage prevention compliance services to assist with the regulatory requirements of 49 CFR 192 and 195, as well as API RP 1162. Since 2001, the oil and gas industry has worked with Paradigm to fulfill public education and community awareness requirements.

Our history of implementing public awareness programs and compliance services pre-dates API RP 1162. Most of the pipeline industry's large, mid-sized and small operators, as well as many local distribution companies utilize Paradigm's compliance services.

In serving our clients, Paradigm performs full-scope compliance programs from audience identification through effectiveness measurement. In addition, we offer consulting services for plan evaluation and continuous improvement. At the completion of each compliance program, we provide structured documentation which precisely records all elements of the program's implementation to assist with audits.

Paradigm leads the way in industry service. Pipeline operators and local distribution companies trust in Paradigm to implement their public awareness and damage prevention programs. Each year we:

- Distribute 25 million pipeline safety communications
- · Compile and analyze roughly 250,000 stakeholder response surveys
- · Facilitate over 1,200 liaison programs
- Implement approximately 1,000 public awareness compliance programs
- Provide audit support and assistance with over 50 public awareness audits

Contact Paradigm for more information regarding custom public awareness solutions.

Contact us:

Paradigm Liaison Services, LLC PO Box 9123 Wichita, KS 67277 (877) 477-1162 Fax: (888) 417-0818 www.pdigm.com







Presenter/ Confact Information:	key lake-Aways:
	✓
	✓
	✓
	✓
	✓
Comments to Remember	
Questions to Ask	
New Concepts to Explore	

Additional Notes



Who we are. Who we serve. What we do.

Georgia 811 is a nonprofit corporation dedicated to preventing damage to Georgia's underground utilities and promoting public safety. We function as a communication system, connecting our member utility companies with professional excavators and homeowners who are planning mechanized digging activity such as excavation, tunneling, grading, boring and demolition.

Although it is not required by Georgia law to notify Georgia 811 if a smaller, non-mechanized digging project is planned, we encourage residents to do so to ensure their personal safety and the safety of those around them. These projects can include installing a fence, deck, swing set or mail box; planting trees or landscaping.

This notification system provides Georgia 811 members an opportunity to locate and identify any underground facilities they may have in an area where digging is planned.

Contact 811 before you dig. The law protects us all.

Georgia law mandates that before beginning any mechanized digging or excavation work, you must contact Georgia 811 by entering a locate ticket online (link available at Georgia811.com) or by calling 811 or 1-800-282-7411 at least 3 business days in advance to have utility lines marked. Additional information can be found by visiting our website at www.georgia811.com.

NOTIFICATION NOTIFICATIONS **TICKETS** STATE LAWS & PROVISIONS EXEMPTIONS ACCEPTED Excavator Permits Issued Mandatory Membership Statewide Coverage Clause Positive Response Reporting Hand Dig Clause GEORGIA Civil Penalties Georgia 811 811 or 800-282-7411 Emergency Overhead Website: www.georgia811.com Damage I FAX Online Mobile Hours: 7:00 AM - 6:00 PM, M-F (24/7 emergency) Advance Notice: 48 Business hours excluding the day of the call Marks Valid: 30 calendar days https://www.georgia811.com/index.php/laws-policies *Farming activities Chart Reference: https://pipelineawareness.org/media/1507/2019-excavation-safety-guide-pipeline-edition.pdf



