

GEORGIA



Coordinated Response & Excavator Exercise® PIPELINE SAFETY TRAINING



PROGRAM GUIDE

Overview

Pipeline Safety

Exercise Outline

Emergency Response Guidebook

NENA Pipeline Emergency Operations

Signs Of A Pipeline Release

High Consequence Areas 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 (Enbridge)	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
Texas Eastern Transmission L.P. (Enbridge).....	1-800-231-7794

Note: The above numbers are for emergency situations.
Please see individual company sections for non-emergency contact information.
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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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

<u>Type 1 Products</u>	<u>Flash Point</u>	<u>Ignition Temperature</u>
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 threshold
 - 10.0 PPM Eye irritation
 - 100 PPM Headache, dizziness, coughing, vomiting
 - 200-300 PPM Respiratory inflammation within 1 hour of exposure
 - 500-700 PPM Loss of consciousness/possible death in 30-60 min.
 - 700-900 PPM Rapid loss of consciousness; death possible
 - Over 1000 PPM 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
- 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

<u>Type 3 Products</u>	<u>Flash Point</u>	<u>Ignition Temperature</u>
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
- 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

Pipeline Emergency Response Training

First Responders and Contractor/Excavator Personnel



CORE-EX[®]

EXCAVATION RESPONSE & EMERGENCY

Instructor: John Cory



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Continuing Education Unit (CEU) Opportunities

Law Enforcement Officers:
Please be sure to ask
instructor for sign-in
sheet! Course: NHR13G

This course is approved by the
**Georgia Firefighters
Standards & Training
Council**
As Course Number: 1666-1204-1

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811 Presentation



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GEORGIA 811

What is Georgia 811?

- Nonprofit Organization
- Communication System
- Provides a single point of contact for:
 - Excavation
 - Demolition
 - Work near overhead high voltage power lines



Georgia 811 Functions

- Provides the participating members an opportunity to identify and locate or otherwise protect their facilities
- Provides excavators and the general public a single point of contact for notifying all affected Georgia 811 member utility companies before excavating
- Notify member facility owner/operators with Overhead Electric lines that someone / something will be working within 10 feet of the lines



Who is a member?

- Facility owner / operator who owns, operates, or controls the operation of an underground facility
- Membership is required
- Exception: Homeowners





When are you required to notify 811?

No person shall commence, perform, or engage in blasting or in excavating with mechanized excavating equipment on any tract or parcel of land in any county in this state unless and until the person planning the blasting or excavating has submitted a locate request to Georgia 811 that provides appropriate notice.





Notify 811, It's Free

- Contact 811 at least three business days before planned excavation
- Call 811
 - Enter locate requests over the web at www.Georgia811.com
 - MyGeorgia811.com

Locating is provided by the utilities so the service is free too!






Effective Date for Normal Tickets

Definition
Effective Date

- It is the calendar day on which blasting or excavating is anticipated to begin as indicated by the excavator in the request.
- Excavators may choose an Effective Date for any day of the week, to include weekends and holidays.
- Locate requests expires 30 calendar days after the Effective Date.

O.C.G.A. § 25-9-3




Emergency Notification

- An emergency "means a sudden or unforeseen occurrence involving a clear and imminent danger to life, health, or property; the interruption of utility services; or repairs to transportation facilities that require immediate action."
- Notice expires at 7:00 A.M. three business days after notification is made to Georgia 811.
 - Example: If the request is made during normal business hours on Monday, an Emergency request will expire on Friday at 7:00 A.M.




Emergency Notification

- Georgia Underground Facility Protection Act (GUFPA) does not address response times for emergencies.
- False emergencies are a violation of Georgia Underground Facility Protection Act (GUFPA).




PRIS: Positive Response Information System

Positive Response Information System or (PRIS) is an automated system serving two functions:

- It allows Georgia 811 members to respond to each individual locate request providing information on whether underground facilities are present or not present.
- It also allows the Excavator to check the status of their locate requests.



PRIS: Positive Response Information System

- All facility owners/operators are required to respond to PRIS by midnight of the calendar day prior to the effective date
- All excavators are required to be aware of what has been timely entered into PRIS prior to excavation





PRIS Access

- www.Georgia811.com
- Georgia 811 Mobile App






Late Notice from Georgia 811

- If a facility owner/operator has not responded prior to midnight of the calendar day prior to the effective date
- Georgia 811 will automatically send a late notice to the facility owner (the facility owner will have until noon of that business day to respond)




Additional Notices

An Additional Notice is a request sent to re-notify the utility members the need for a locate to be performed again on an active locate request.

An Additional Notice can also be sent to dispute a PRIS response

Additional locate instructions cannot be added to the existing request when requesting an additional notice. The area of excavation cannot be expanded or reduced.



Excavator Damage Reporting Requirements

- Excavators **Must**
 - Call 811 for gas and hazardous material
 - Report damage to affected utility and Georgia 811
- Excavators **Can**
 - Report a utility to the Georgia Public Service Commission

Until the damage has been repaired, no person shall engage in excavating or blasting activities that may cause further damage to the utility facility.



Utility Reporting Requirements

Utilities **Must**:

- Report all damages to their facilities due to a probable violation of GUFPA (Georgia Public Service Commission Rule)
- Submit the report (investigation) to the Public Service Commission within 30 days of discovery of the damage
- Submit report at psc.ga.gov



KNOWLEDGE

- Your best defense in avoiding damages is to know what is required by law of all stakeholders
- A copy of GUFPA can be found at www.georgia811.com
- Request a free Damage Prevention training class from Georgia 811
- Seek Legal Counsel



Georgia 811 Training

Working Standards, Training

Georgia 811 provides free online training. Standard training that is made for operators to the Georgia Damage Prevention Training (GPD) that is 100% self-paced and may allow for delivery 11/2023.

Other information is also included as part of the Georgia 811 Damage Prevention Training course.

Georgia 811 Damage Prevention Consultant Present, Various

The Damage Prevention Consultant Present Training is a 4-hour course that covers several different related topics in the following order:

- Introduction to GUFPA as applied to Georgia
- Regulatory and Training
- Utility & Standards
- Mapping, Tools
- Training, Techniques
- FAQ & Q&A
- Damage Prevention

Training is provided in two sessions. To sign up or for questions about Georgia Damage Prevention Training, contact info@georgia811.com



ThoughtSpot

Georgia 811 is excited to announce the availability of a free online tool to assist members in understanding their data to make budgetary, workforce management, and damage prevention decisions.

With the introduction of Member Account Reports, ThoughtSpot is now being used by members to predict budgetary expenses. This is a tool that will allow members to make data driven damage prevention decisions.

Members will have access to the following information in ThoughtSpot:

- 811 Calls
- Active Tickets
- Damage Trends
- Lane Notices
- Approving Large Projects

(*Features are available for personal use only at any time.)





Georgia 811 Liaisons

Division Director: Wally Hines, 800-539-8800

Region 1: Beasley Kinney, 800-575-4200

Region 2 & 4: O'Hara Lefferts, 478-638-9552

Region 3 & 5: Brandon Cole, 800-644-5427

Region 6 & 7: Terry McQuinn, 770-731-8844

Region 7: Dale Johnson, 770-388-1886

Corporate Communications Director: Megan Foster, 770-822-2008

Information Administration: Maria Espinosa, 770-767-8848



Dredging Operations

If your company conducts dredging operations, shoreline stabilization or pile driving activities, please be aware of the following:

- Underground hazardous liquids and natural gas pipelines do traverse lakes and navigable waterways
- 811 requirements to submit a one-call ticket prior operations commencing, to include a sub-aqueduct ticket option
- Identify all pipeline warning markers near the shoreline where you will be working
- Contact the pipeline company as part of your pre-planning before work begins




Logging Operator Responsibilities

- Notify pipeline company before work begins
- No skidding of logs on right of way
- Crossing of pipeline must be approved
- Drop cut trees away from pipeline
- Do not remove existing cover
- Restore right of way



Safe Digging Practices

<https://www.core-ex.com/safe-digging-practices/>



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Practice

Coordinated Response Exercise®

- Learn** your roles and responsibilities as emergency responders should a pipeline emergency happen in your jurisdiction. As well as your access to resources.
- Acquaint** you with the operator's ability to respond to a pipeline emergency.
- Identify** the types of pipeline emergencies.
- Plan** how all parties can engage in mutual assistance to minimize hazards to life, property and the environment.



Code of Federal Regulations (CFR): 49 CFR Parts 192 and 195

By attending this session today, you are preparing, along with the pipeline companies, to create a coordinated effort in responding to pipeline incidents and accidents. These programs take place every 2,000 times in 48 states annually.

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Practice

Liberty County Emergency Communications Services: Liberty County Emergency Communications, how did it start your job?

Pipeline Operator: My job center with the Pipeline Company. I'm taking your class because I got a special assignment to be in the 911 center located in Houston, Texas. We are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

Liberty County Emergency Communications Services: Liberty County Emergency Communications, how did it start your job?

Pipeline Operator: We are concerned that your situation will not working through the state with our pipeline operators and need to know what you can do to help us. We are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

Emergency Response: Liberty County, Texas. What is your emergency?

Pipeline Operator: We are aware of the Pipeline Company's work in your jurisdiction and we are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

Emergency Response: OK, do you have a specific location of the potential hazard?

Pipeline Operator: We do not have a specific location at this time - it could be in Liberty County or in the state of Texas, we need to know.

Emergency Response: What company are you with again?

Pipeline Operator: My Pipeline, the Pipeline Company is in Houston, Texas and the potential hazard could be in the state of Texas. We are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

Emergency Response: Is there any emergency going on at your end and is it related to this?

Pipeline Operator: We are aware of the Pipeline Company's work in your jurisdiction and we are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

Emergency Response: Where is your pipeline located?

Pipeline Operator: We have 10 miles of pipeline in Liberty County. We have a lot of pipeline in the state of Texas. We are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

Emergency Response: What address do you need to go to investigate this?

Pipeline Operator: I agree your pipeline emergency response procedure for a potential pipeline emergency, and we are required to give you a "Notice of Potential Hazard" on one of our pipelines in your jurisdiction.

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Central Dispatch Receives a call...

Practice

Table and / or Group Discussion



- Your dispatch has just received a NOTICE OF POTENTIAL RUPTURE. The caller represents a pipeline company following their in-house emergency response plans.
- Now, discuss with those around you how your dispatch will handle this information. What existing policies and procedures are applicable to this call? Describe, at least generally, those relevant policies and procedures.
- Work with the pipeline operators present to discuss, evaluate and prepare for a response to a potential rupture on their facilities.

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Practice

For both natural gas and hazardous liquids pipelines.

- Pipeline operators must contact 9-1-1 or Emergency Management with a "notice of potential rupture"

How does this rule potentially affect PSAPs

- How will your agency process this call when notified of a "potential" misuse?
 - Will you record it and get paid for it by your response agencies?
 - Will you record and pass that information on to your response agencies?
 - Will this require your PMP (and emergency services) to develop additional policies?
 - Where, potentially, could this call be coming from?
- Pipeline control center locations
 - Contacting a PMP through the non-emergency number (no Automatic Number Identification (ANI), no Automatic Location Identification (ALI), no this number needed 911/711?)
- Pipeline operators were required to update their Emergency Response Plans (ERPs) with this requirement in October 2012.

- To require design and equipment elements and required operational practices for specific and efficient identification of ruptures, that in turn will improve rupture mitigation and shorten rupture isolating times for certain gas transmission, gathering, and hazardous liquid pipelines.
- Require isolation time, as it is discussed in this final rule, in the case of leaks an operator to identify a rupture, after identification of a potential rupture, implement response procedures, and fully close the appropriate valves to terminate the uncontrolled flow of commodity from the ruptured pipeline segment.

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Appendix A

National Emergency Number Association (NENA)

Pipeline Emergency Operations Standard

NENA's pipeline emergency operations workgroup recommendations

- Awareness of pipelines affecting the 911 service area
- Pipeline leak recognition and initial response actions
- Additional notices to pipeline operators

Initial intake checklist

- Quick reference guide in program materials

Pipeline emergency operations standard/model recommendations

- Access the full report through nena.org



"Actions taken during this time frame significantly impact the effectiveness of the response and are critical to public safety"

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Pipeline Outreach to Stakeholders

- Mailings (More than 10 Million pieces annually)
- Over 1,000 Liaison Meetings with Emergency Officials, Public Officials, and Excavators
- Face-to-Face Meetings with Emergency Officials at their agencies
- Emergency Response Planning Portal (ERPP)



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Pipeline Operators Emergency Response Plans

Natural gas and hazardous liquids

- Notify appropriate fire, police, and other public officials of gas or liquid pipeline emergencies, coordinate planned responses, and actual responses during an emergency
- Identify the type of incident
- Prompt and effective response measures
- Availability of personnel and equipment
- Make safe any actual or potential hazard to life, property, and the environment
- Incident investigation and review

Natural gas (49 CFR 192.615)

- Establish and maintain communication with fire, police, and other public officials
- Direct actions to protect people, then property
- Emergency shutdown to minimize hazard to life, property, and the environment
- Safely restore service

Hazardous liquid (49 CFR 195.402)

- Take necessary actions, such as emergency shutdown and pressure reduction
- Control of released hazardous liquid or carbon dioxide as soon as minimize hazards
- Minimize public exposure to injury by taking appropriate actions such as evacuations or traffic controls
- Use instrumentation to assess vapor cloud coverage and determine hazardous areas

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Emergency Response and 811

Derrailments, car accidents, excavating/farming mishaps, natural disasters, and wildfires

PHMSA Advisory Bulletin (2012-08)

- Based on National Transportation Board recommendations
- Inform emergency responders about the benefits of 811
- Identify underground utilities in the area
- Notify underground utilities in the area



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Integrity Management

Pipeline companies are required to have Integrity Management programs to insure safe and efficient operations:

- Internal and external cleaning and inspection, of the pipeline and affected areas:
 - Wrights of Way and valves
- Supervisory Control and Data Acquisition (SCADA)
- Identification of High Consequence Areas (HCA)
- Aerial Rights of Way Patrols
- Public Awareness Outreach to stakeholders
- Participation as a member of R21
- Operator Qualification (OQ) training
- Local Distribution Company (LDC)
 - Market Testing
 - Leak Surveys
 - May also be utilized on transmission pipelines



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Practice

Other challenges impacting pipelines...

Natural Disasters

- Tornadoes
- Wildfires/Forest Fires
- Flooding/Mudslides/Slips
- Earthquakes



Human Error

- Vehicle accidents involving above ground valve sites
- Third party strikes by contractors and excavators
- Agricultural activities, field tilling



National Security Threats

- Cyberterrorism involving pipeline systems
- IED's on pipeline assets

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Practice

Pipeline Operator / Responder Challenges

- Timely notification of the incident
- Denied entry at scene of incident
- Quick access to remote valves/ICP
- Getting equipment into the area
- Communications with incident command
- Clear lines of communication (both ways)
- Face to face meetings with local officials
- Pre-planning with emergency services



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Practice

Pipeline Company - Internal Responsibilities

- Regular pressure testing of the pipeline
- Smart pigging in a timely manner of the pipeline
- Personnel logistics - Drive time and other factors
- Personnel training - Actual practice of closing a Pipeline
- Tool placement / positioning
- Human reaction to working under stress
- Working with local Public officials and First Responders



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Practice

Local Operator Information*

- Operator and/or company name
- Pipeline systems and products
- Location of pipelines
- Pipeline size/operating pressure(s)
- Operator Response(s) to a pipeline emergency

*Information in the materials may not represent all pipeline companies in your area.



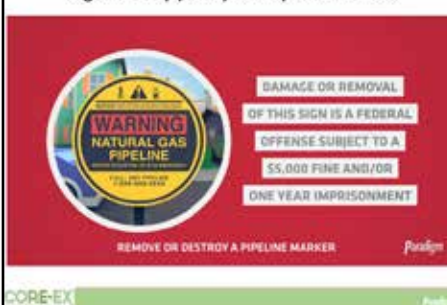
Program Resources



Program Resources



Right-of-Way (ROW) and Pipeline Markers



National Pipeline Mapping System (NPMS)



Product Characteristics

Hazardous Liquids

- ERG Guide 129 (Pages 185-187)
- Crude oil, jet fuel, gasoline and other refined products
- Liquid in and liquid out of the pipeline

Highly Volatile Liquids

- ERG Guide 131 (Pages 180-183)
- Propane, butane, ethane and natural gas liquids
- Liquid in and vapor out of the pipeline

Natural Gas

- ERG Guide 133 (Pages 180-183)
- Gas in and gas out of the pipeline
- Odorous Mercaptan added where required



Product Characteristics Resources

Mobile Applications: Android and iPhone



Petroleum Products Batching



PIPELINE COMPANIES USE BATCHING LINES

Paragon

-
-
-
-
-
-

-
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-

- Pools of liquid on the ground near a pipeline
- Dense white cloud or fog over a pipeline
- Discolored vegetation surrounding a pipeline
- Unusual dry spot in an otherwise moist field
- Oil blowing up from the ground
- Bubbling in marshland, rivers or creeks
- Dirty sheen appearing on water surfaces
- Frozen ground near a pipeline
- Unusual noise coming from a pipeline
- Unusual smell or gaseous odor



- Be aware, not all natural gas leaks are from excavation; unintended leaks from stoves, water heaters, furnaces, etc. can occur
- When called out on natural gas leak events, use combustible gas indicators
- Mercaptan can be stripped as it travels through soil
- Frost heaves, breaking pipes
- Gas meter breaks due to snow buildup from



Identification tags [152, 503 to 5]

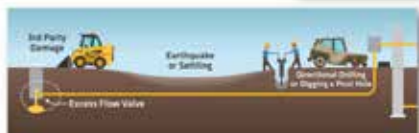
- The presence of an excess flow valve on the service lines may or may not be marked with an identification tag. The identification tag (if present) will typically be located at the top of the service riser below the meter (stop valve).



Excess Flow Valve (EFV)

Local Distribution Lines

- Automatic reduction of gas flow should a service line break
- May not completely stop the flow of natural gas
- May not hear a distinct hissing sound
- Migration and ignition sources may still exist
- Always work a coordinated response with your local operator
- Not all service lines have an EFV installed

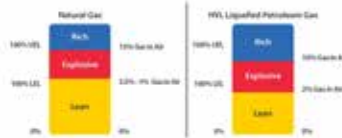


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Parade

Explosive Limits

Explosive Limits vs. Percent of Gas in Air

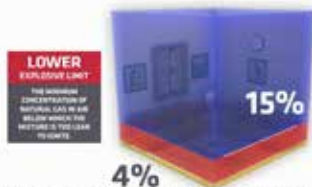


Lower-Upper Explosive Limits depends on characteristics of gas (LEL)

CORE-EX

Parade

Explosive Limits



FOR NATURAL GAS RANGES BETWEEN ROUGHLY FOUR PERCENT

Parade

CORE-EX

Parade

Farm Taps

- Mainly in rural areas, some natural gas pipeline companies may have facilities commonly referred to as "farm tap"
- These natural gas settings are made up of valves, pipes, regulators, relief valves and a meter. It may be located near the home or within the general vicinity
- To report the smell of gas near a farm tap, call 911 and the local gas company from a safe distance
- The lines after a farm tap or residential meter may or may not be PRIVATE LINES, be aware of these



CORE-EX

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Horizontal Directional Drilling (Cross Bore)



THROUGH A SEWAGE LINE, LOCAL DISTRIBUTION, TRANSMISSION *Parade*

CORE-EX

Parade

InfraGard – Protecting Critical Infrastructure

InfraGard is a partnership between the FBI and members of the private sector for the protection of U.S. Critical Infrastructure.



<https://infagard.org>

16 Critical Infrastructure Sectors:

- Chemical
- Commercial Facilities
- Communications
- Critical Manufacturing
- Dams
- Defense Industrial Base
- Emergency Services
- Energy
- Financial Services
- Food and Agriculture
- Government Facilities
- Healthcare and Public Health
- Information Technology
- Nuclear Reactors, Materials, and Waste
- Transportation Services
- Water & Wastewater Systems

CORE-EX

Parade

Emergency Response Portal (ERP)

PHMSA Advisory Bulletin issued October 2010

<https://www.phmsa.dot.gov/sites/PHMSA/files/documents/ERP%20V1.0.pdf>

Provides agencies secure access to participating pipeline operator profiles include:

- Contact information
- Country of operation
- Product(s) transported

*Additional information updated to share pipeline mapping, emergency response plans.



CORE-EX

Parade

Pipeline Preparedness Training Center

Share with others in your agency unable to attend today's program:

- Access to your local pipeline sponsor information
- Download the same documents presented in this program
- Certificate of completion provided upon completion of course



trainingcenter.phmsa.gov
Use Code: 2025CORE w/2025EX

Always an Education



911 Communications Director: Appreciate the opportunity to do this online and have it available for my staff. Very informative!

Battalion Chief: Thank you for the information. I also like the fact of being able to take the course online when I cannot make the live session.

Communications: Very informative and increased my awareness of the resources available to our county leadership in case of an emergency.

Deputy Emergency Management Coordinator: Excellent presentation, Thank you for the resources and useful web pages.

Director of Public Safety: Excellent presentation, Thank you for the ability to take class online due to scheduling conflict.

CORE-EX

Parade

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>



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.
 3. 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*

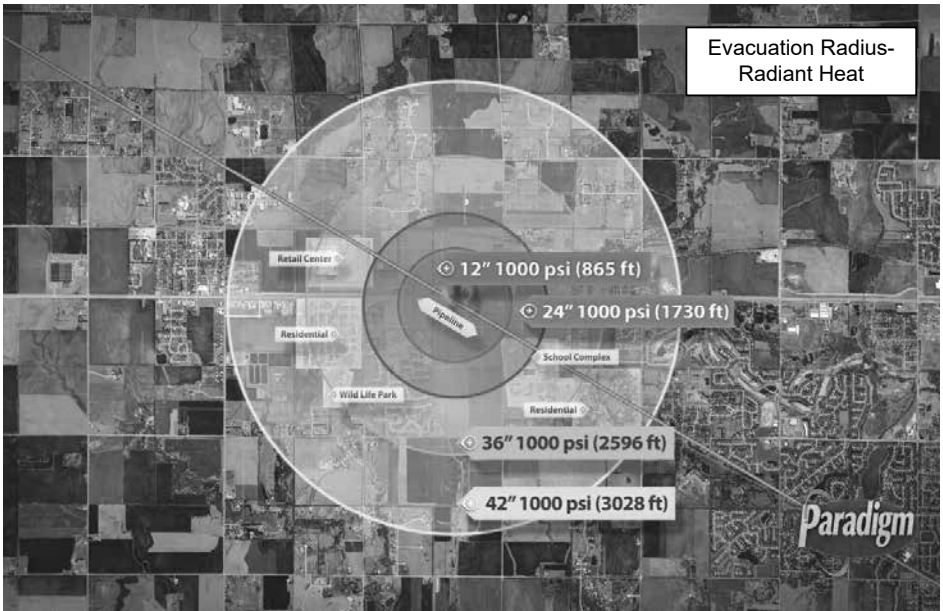
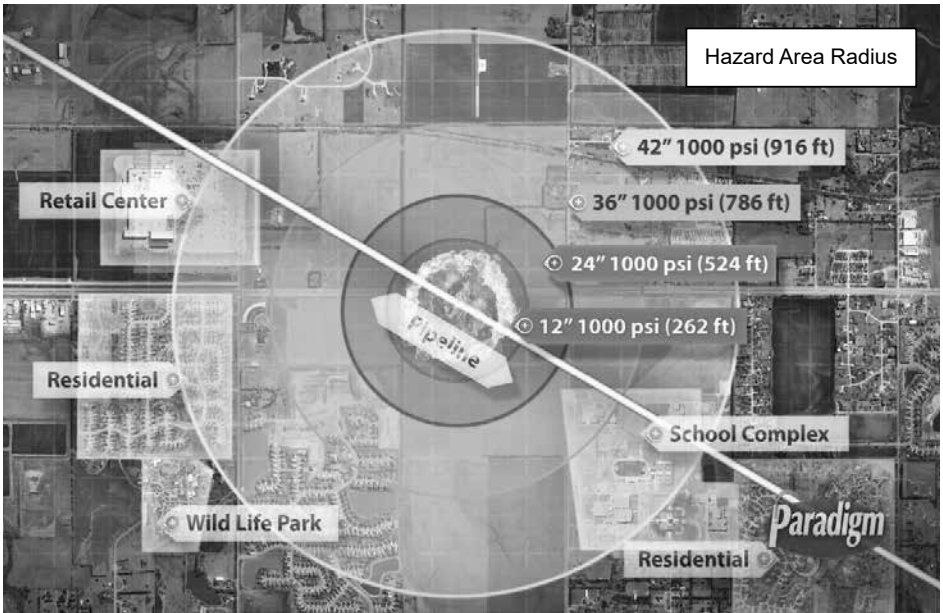
HAZARDOUS LIQUIDS

(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*



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

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
4. 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 CHECK LIST

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 on-air 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	X	X	
A loud roaring sound like a jet engine	X	X	
A white vapor cloud that may look like smoke		X	
A hissing or whistling noise	X	X	
The pooling of liquid on the ground			X
An odor like petroleum liquids or gasoline		X	X
Fire coming out of or on top of the ground	X	X	
Dirt blowing from a hole in the ground	X	X	
Bubbling in pools of water on the ground	X	X	
A sheen on the surface of water		X	X
An area of frozen ground in the summer	X	X	
An unusual area of melted snow in the winter	X	X	
An area of dead vegetation	X	X	X

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
- 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

SOUND

- A hissing or roaring sound

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
- 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

Fire

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

Static electricity (*nylon windbreaker*)

Metal-to-metal contact

Pilot lights, matches & smoking, sparks from phone

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

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.

* <https://primis.phmsa.dot.gov/comm/FactSheets/FSHCA.htm>

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 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.
- 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.
- 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.

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.



In 1999, the Department of Transportation sponsored the Common Ground Study. The purpose of the Common Ground Study was to identify and validate existing best practices performed in connection with preventing damage to underground facilities. The collected best practices are intended to be shared among stakeholders involved with and dependent upon the safe and reliable operation, maintenance, construction, and protection of underground facilities. The best practices contain validated experiences gained that can be further examined and evaluated for possible consideration and incorporation into state and private stakeholder underground facility damage prevention programs.

The current Best Practices Field Manual is divided into nine chapters that provide a collection of current damage prevention best practices. The nine chapters include:

1. Planning & Design Best Practices
2. One Call Center Best Practices
3. Location & Marking Best Practices
4. Excavation Best Practices
5. Mapping Best Practices
6. Compliance Best Practices
7. Public Education Best Practices
8. Reporting & Evaluation Best Practices
9. Miscellaneous Practices

To view the latest version of the Best Practices please visit www.commongroundalliance.com



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).



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

Training Center

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



Damage Prevention Programs

Pursuant to 49 CFR Parts 192.614 (c)(2)(i) and 195.442 (c)(2)(i) pipeline operators must communicate their Damage Prevention Program's "existence and purpose" to the public in the vicinity of the pipeline and persons who normally engage in excavation activities in the area in which the pipeline is located.

State and federally regulated pipeline companies maintain Damage Prevention Programs. The purpose of which is to prevent damage to pipelines and facilities from excavation activities, such as digging, trenching, blasting, boring, tunneling, backfilling, or by any other digging activity.

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

American Public Works Association (APWA) Uniform Color Code

	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 - Communication, Alarm or Signal Lines, Cables or Conduit
	BLUE - Potable Water
	PURPLE - Reclaimed Water, Irrigation and Slurry Lines
	GREEN - Sewers and Drain Lines

OSHA General Duty Clause

Section 5(a)(1) of the Occupational Safety and Health Act (OSHA) of 1970, employers are required to provide their employees with a place of employment that "is free from recognizable hazards that are causing or likely to cause death or serious harm to employees."

<https://www.osha.gov/laws-regs/oshact/section5-duties>

Product Characteristics

PRODUCT	LEAK TYPE	VAPORS
HIGHLY VOLATILE LIQUIDS [SUCH AS: BUTANE, PROPANE, ETHANE, PROPYLENE, AND NATURAL GAS LIQUIDS (NGL)]	Gas	Initially heavier than air, spread along ground and may travel to source of ignition and flash back. Product is colorless, tasteless and odorless.
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. Fire may produce irritating and/or toxic gases.	

PRODUCT	LEAK TYPE	VAPORS
NATURAL GAS	Gas	Lighter than air and will generally rise and dissipate. May gather in a confined space and travel to a source of ignition.
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.	

PRODUCT	LEAK TYPE	VAPORS
HAZARDOUS LIQUIDS [SUCH AS: CRUDE OIL, DIESEL FUEL, JET FUEL, GASOLINE, AND OTHER REFINED PRODUCTS]	Liquid	Initially heavier than air and spread along ground and collect in low or confined areas. Vapors may travel to source of ignition and flash back. Explosion hazards indoors, outdoors or in sewers.
HEALTH HAZARDS	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.	

EXCAVATOR RESPONSIBILITIES:

- ☐ Call Before You Dig - It's the Law!
- ☐ Wait the required time for the markings!
(state specific time – check your local One Call Law)
- ☐ Tolerance Zones – May vary by state and/or company!
- ☐ Respect the marks!
- ☐ Dig with care!

RISK CONSIDERATIONS

- ☐ Type/volume/pressure/location/geography of product
- ☐ Environmental factors – wind, fog, temperature, humidity
- ☐ Sight, sound, smell – indicators vary depending on product
- ☐ 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
- ☐ Other utility emergencies

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. Markers may not be located directly over the pipeline it marks.

The markers display:

- ☐ The product transported
- ☐ The name of the pipeline operator
- ☐ The operator's emergency number



- ☐ White Lining (Pre-marking)
 - ☐ One Call Facility Request
 - ☐ One Call Access
 - ☐ Locate Reference Number
-
- ☐ Separate Locate Request
 - ☐ Pre-excavation Meeting
 - ☐ Facility Relocations
 - ☐ One Call Reference Number at Site
 - ☐ Contact Names and Numbers
 - ☐ Positive Response
 - ☐ Facility Owner/Operator Failure to Respond
 - ☐ Locate Verification
 - ☐ Work Site Review with Company Personnel
 - ☐ Documentation of Marks
 - ☐ Facility Avoidance
 - ☐ Marking Preservation
 - ☐ Excavation Observer
 - ☐ Excavation Tolerance Zone
 - ☐ Excavation within the Tolerance Zone
 - ☐ Vacuum Excavation
 - ☐ Mismarked Facilities
 - ☐ Exposed Facility Protection
 - ☐ Locate Request Updates
 - ☐ Facility Damage Notification
 - ☐ Notification of Emergency Personnel
 - ☐ Emergency Coordination with Adjacent Facilities
 - ☐ Emergency Excavation
 - ☐ Backfilling
 - ☐ As-built Documentation
 - ☐ Trenchless Excavation
 - ☐ No Charge for Providing Underground Facility Locations
 - ☐ Federal and State Regulations



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:

Call Before You Clear

www.callbeforeyouclear.com

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

National One-Call Dialing Number: 811

www.call811.com

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

<https://www.nena.org/>

National Fire Protection Association (NFPA)

www.nfpa.org

National Pipeline Mapping System

www.npms.phmsa.dot.gov

National Response Center

<https://www.epa.gov/emergency-response/national-response-center> 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)

<https://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



Register for access to
Training Center
Code: CORE or EX



Register for access
to the Emergency
Response Portal



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



HSEEP
Homeland Security Exercise
and Evaluation Program

[illegible]



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 the 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 48 hours in advance to have utility lines marked. Additional information can be found by visiting our website at www.georgia811.com.

GEORGIA

Georgia 811 811 or 800-282-7411

Website: www.georgia811.com

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

Law Link:

<https://www.georgia811.com/index.php/laws-policies/>

* Farming activities

TICKETS			STATE LAWS & PROVISIONS									NOTIFICATION EXEMPTIONS				NOTIFICATIONS ACCEPTED						
FAX	Online	Mobile	Statewide Coverage	Civil Penalties	Emergency Clause	Mandatory Membership	Excavator Permits Issued	Mandatory Premarks	Positive Response	Hand Dig Clause	Damage Reporting	DOT	Homeowner	Railroad	Agriculture	Depth	Damage	Design	Emergency	Overhead	Large Projects	Tolerance Zone
N	Y	N	Y	Y	Y	Y	N	Y	Y	Y	Y	N	N	Y	Y	N	Y	Y	Y	Y	Y	18"

Chart Reference: <https://pipelineawareness.org/media/1507/2019-excavation-safety-guide-pipeline-edition.pdf>



1.877.477.1162 • ga.pipeline-awareness.com