INDIANA



PIPELINE SAFETY TRAINING



PROGRAM GUIDE

Overview Pipeline Safety Excavation Best Practices Checklist Signs Of A Pipeline Release What To Do If A Leak Occurs Pipeline Emergency Common Ground Alliance Best Practices Pipelines In Our Community Damage Prevention Programs Pipeline Damage Reporting Law 2025



1.877.477.1162 • in.pipeline-awareness.com

EMERGENCY CONTACT LIST

Company Name	Emergency Number
Ameresco	
Aurora Utilities	
Bainbridge Utilities	. ,
Batesville Water & Gas Utility	
Boonville Natural Gas	
BP Pipelines (North America) Inc	
Buckeye Partners, L.P	(800) 331-4115
CenterPoint Energy	
Chrisney Municipal Gas	(911)
CITGO Petroleum Corporation	(800) 471-9191
Citizens Energy Group	(800) 458-4553
City of Rensselaer Gas Utility	(219) 866-7602
Community Natural Gas Co. Inc	
Countrymark Refining and Logistics, LL	.C (812) 838-8500
or	ext.8500 (800) 832-5490
Duke Energy Nobleville Station	(618) 392-5502
Enbridge US Inc. / Texas Eastern LP (Ga	as) (800) 231-7794
Enbridge US Inc. / Texas Eastern LP (0)	I) (800) 858-5253
Enterprise Products Operating LLC,	(888) 883-6308
Explorer Pipeline Company	(888) 876-0036
Fountaintown Gas Company, Inc	(800) 379-1800
or	(833) 763-6393
Hoosier Energy REC, Inc	(812) 875-9707
Huntingburg Energy Department	(812) 683-2327
Indiana Natural Gas Corporation	
Indiana Utilities Corporation	(800) 589-8142
Jasonville Utilities	(812) 665-2680
or	
Jasper Municipal Gas & Water	()
Kinder Morgan Kinetrex Pipeline	(800) 733-2490
Kinder Morgan (Natural Gas Pipeline Company of	America) (800) 733-2490
Linde	
Linton Municipal Utilities	(812) 847-4411
Marathon Pipe Line LLC	()
Midwest Natural Gas Corporation (Bloom	
or	
Midwest Natural Gas Corporation (Scottst	
or	(800) 654-2361

Company Name	Emergency Number
Montezuma Municipal Gas Utility	(765) 245-2759
or	(765) 245-2211
New Harmony (town of) Gas Utilities (Da	y) (812) 682-4846
New Harmony (town of) Gas Utilities (Nig	pht) (812) 838-8363
NIPSCO (Northern Indiana Public Service Company)	(800) 634-3524
NuStar Pipeline Operating Partnership	LP (800) 759-0033
Ohio Valley Gas Corporation	
Winchester District	(765) 584-5503
or	
Portland District: Jay County	(260) 726-8114
Portland District: Randolph County	(765) 584-5503
Connersville District	(765) 825-1149
or	(800) 326-1148
Tell City District	(812) 547-2396
or	(877) 842-2397
Sullivan District	(877) 884-6368
Owens-Illinois	(618) 392-5502
Panhandle Eastern Pipe Line	(800) 225-3913
Pembina Cochin LLC	(800) 360-4706
Poseyville Municipal Utilities	(812) 874-2212
Riverside Petroleum Indiana LLC	(888) 871-3550
South Eastern Indiana Natural Gas Co.	Inc (800) 379-1800
or	(833) 654-2444
Switzerland County Natural Gas Co Inc	(812) 427-3332
Sycamore Gas Company	(877) 544-2726
Tallgrass	(877) 436-2253
TC Energy - ANR Pipeline Company	
Texas Gas Transmission, LLC	(800) 626-1948
Town of Lapel	(765) 534-3157
Town of Osgood Gas Utility	
Town of Pittsboro	(317) 892-3326
Town of Roachdale Municipal Utility	(765) 301-0828
Trunkline Gas	(800) 225-3913
Valley Rural Utility Company	(888) 784-6160
Valero Terminaling and Distribution Con	npany (866) 423-0898
Vector Pipeline	· · ·
Vermillion Rise Mega Park	()
West Shore Pipe Line Company	· · ·
Wolverine Pipe Line Company	(888) 337-5004

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

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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

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

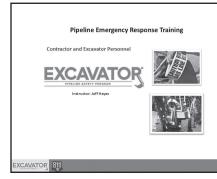
- Defined by pipeline regulations 192 and 195
- · Requires specialized communication and planning between responders and pipeline/gas personnel
- · May necessitate detailed information from local response agencies to identify HCAs in area

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



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



Paradig

Continuing Education Unit (CEU) Opportunities

Indiana Department of Environmental Management

Drinking Water Operators Course Number: PSWG23-8121

Wastewater Course Number: WWT24-5222-T02-G00

Well Drillers / Pump Installers Approval Code: 20-001 – Needs to be updated



EXCAVATOR 811

Parad

Pipeline Operator 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

Do contractors and excavators face



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.



Coordinated Response Exercise®

- Learn your requirements and responsibilities prior to beginning excavating.
- Acquaint you with the operator's ability to respond to a pipeline emergency. And find out what the company responsibilities are once you notify 811 before you can dia.
- Identify the types of pipeline emergencies.
- Plan how all parties can engage in mutual assistance to minimize hazards to life, property and the environment.

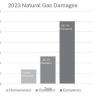
Code of Federal Regulations (CFR): 49 CFR Parts 192 and 195

Roll Call: Excavators, Public Officials, Emergen Responders, and Pipeline Operators



Responders, and Pipeline Operators

Natural Gas Excavation Damages in Indiana



Who are we?

 Our goal is to diligently assess the specific needs of our valued members while also actively engaging with and aducating various stakeholder groups about the vital importance of vitilizing the 811 system. Together, we aim to create a safer community by ensuring a thorough understanding of underground utility safety and the necessary steps to prevent accidental damage.





What do we do?

- Trainings/Member Outreach
 - Members & Contractors
- Community Outreach Events
 - All over the state of Indiana
- Exhibitors
 - Conferences and Tradeshows



Who is Indiana 81

- Non-profit established in 1981
- Contact center operates 24/7/365
- Be mindful of holidays and weekends when submitting tickets.
- We do not locate!



Law Change! Working Day & Prevailing Time

Adds hours to the term working day. Working day is 7 am to 6 pm ET.

Added to define prevailing time as the time observed in Indianapolis, Indiana.



Law Change! Tickets

Proper notice for normal tickets are based on the hours of 7 a.m. - 6 p.m. EST, Monday through Friday, excluding state and federal holidays.

Ticket requests shall remain valid as long as markings remain, until 11:59 p.m. on the 20th day after the request was submitted.

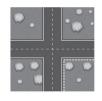
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Locate Descriptions

Your locate description should cover only the areas where you will be digging.

Example: White line the southeast corner of the soutneast corner of the intersection starting at the edge of the road 40 ft inward and note that information on the ticket. Or only request locates for the SE corners at the intersection. **Do not** request "mark entire intersection"



Law Change! **Normal Working Hours**

Ticket requests that are submitted after 7:00 a.m. will not be counted until the following working day.

- Hours: If you request a ticket on Monday after 7 a.m. your proper notice will begin on Tuesday at 7 a.m.
 If you request any time from 6 p.m. 6:59 a.m. your proper notice will begin on 7 a.m.

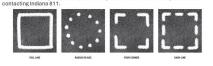
You can commence work before the two full working days if all affected operators have notified the excavator that the location has been marked or is clear of their facilities through positive response.



Law Change! White Lining

Added that electronic white lining is an acceptable form of white lining, that is approved by the association.

Onsite White Lining: Use white paint or flags to mark the intended dig site prior to



Law Change! Select Your Start Date

- You can select an excavation start date that is between 2 full working to 10 calendar days.
- *This does not affect your expiration and the ticket is still only valid for 20 calendar days from time of input.
- Cannot submit a ticket for more than 10 days out and must share start date and time if known.
- Positive Response can be delayed correlating with the scheduled start dates.



Ticket Types

Normal Notice Damage Emergency Additional Notice (2nd Notice) Design Notice Design Inquiry Tool – online only Joint Meet

Law Change! Positive Response

Mandatory positive response for all tickets, including design tickets, to Indiana 811 for all members.

Mandatory positive response to Indiana 811 for a "clear" ticket request.

What is Positive Response?

Positive Response is when the utility provides communication of the status of a locate request back to the excavator after they determine if their underground facilities are close to the excavation site – or not. Through the One Call System means the status is communicated to Indiana 811 instead of directly to the excavator.

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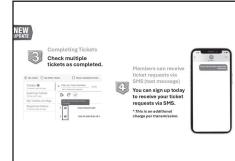
Law Change! Excavators & Positive Response

- Person responsible for excavation or design must acknowledge receipt of positive response to their ticket.
- Excavators view will be logged in the back end of the system once they view positive response. There is nothing an excavator need to select to show proof of viewing.

How does an excavator check Positive Response?







Fines and Penalties

UPPAC

- · Monthly public hearings open to the public
- · May recommend fines and penalties
- Representation by facility owners, excavators, locators, one-call center

Civil Penalties

- UPPAC Meetings review all **pipeline** damage cases
- A civil penalty up to a maximum of \$10,000
- Fines go into UPPA fund

UPPA Fund

This fund is a collection of all the UPPAC fines.

Created to fund positive outreach and education to minimize underground facility damages.

Contact the UPPA fund Program Manager, Darby Miller at darbmiller@urc.in.gov

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Soft Digging Techniques

- Hydro-excavation (Water)
- Pneumatic Excavation (Air Knifing)
- Hand digging with blunt objects such as a spade shovel
- Never use a spike, crowbar, or any other pointed tool within the tolerance zone



Law Change! Tolerance Zone & Soft Digging Techniques

- Potholing is when test holes are dug, usually through vacuum excavation to fully expose underground utilities after they've been marked by a locating technician.
- If you are crossing a buried facility, potholing should be done at the location where your installation will cross the existing facility.
- Defines the term "tolerance zone" and puts in law the donut radius for the tolerance zone.



Damages

What is a damage?

As defined in the law: IC 8-1-26-4 "DAMAGE"

Soc. 4. As used in this chapter, "damage" measure (1) the subsential weakening of underground takens large start weakening of underground takens large start and busing or another protective device of an underground facility; (2) the partial or complete sevence of an underground facility; or (4) rendering any underground facility; or (4) rendering any underground facility; or (4) rendering any underground facility; and case shie.

Steps to take?

- Protect *life*, *health*, *and property* If you have struck a petroleum or gas pipeline, leave the area and call 911 from a safe location
- Notify utility owner
- Contact 811 to report the damaged utility
 Always keep an updated list of emergency
 - contact numbers for each excavation site you are working at.



Get Involved

- Damage Prevention Councils Grassroot level damage prevention effort
- All are welcome to attend
- Meeting times and locations on Indiana811.org



- November 11th-13th
- French Lick Resort and Casino



Questions?

McKennah Heckman Northern Education and Outreach Specialist kman@indiana811.org 463-274-0434

Mason Hubner Central Education and Outreach Specialist mhubner@indiana811.org 317-617-0823

Johnna Bingham Southern Education and Outreach Specialist ibingham@indiana811.org 317-501-3811

Maddie McCaughey Public Awareness and Outreach Specialist mmccaughey@indiana811.org 317-741-0619

Laurvn Luckev Director of Education and Outreach lluckey@indiana811.org 317-501-2615

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-aqueous ticket ontion
- Identify all pipeline warning markers near the shorelines 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



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
- Rights-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 811
- Operator Qualification (OQ) Training
- Local Distribution Company (LDC)
- Meter Testing
 - Leak Surveys
 - May also be utilized on transmission pipel

Product Characteristics

Hazardous Liquids

- ER Guide 128 (Pages 186-187) Crude oil, jet fuel, gasoline and other refined
- Liquid in and liquid out of the pipeline

Highly Volatile Liquids

- R Guide 115 (Pages 160-161)
 Propane, Butane, Ethane and natural gas liquids
 Liquid in and vapor out of the pipeline

Natural Gas

- ER Guide 115 (Pages 160-161) Gas in and gas out of the pipeline Odorant Mercaptan added where required

Anhydrous Ammonia (NH₃)

ER Guide 125 (Pages 186-187) Potential Hazards

- Constituted Frederius
 Toxic; may be faalt if inhaled, ingested or absorbed through skin
 Cloud may not be visible
 Vapors are initially heavier than air and spread along ground
 Wear full protective clothing/SCBA

Health Hazards

- Vapor may cause diziness or sufforation
 Vapors are extremely irritating and corrosive
 Contact with gas or liquefied gas may cause burns, severe injury
 and/or frostbite
- Fire will produce irritating, corrosive and/or toxic gases
 (LEL) 15% to (UEL) 28% (NIOSH Pocket Guide to Chemicals)

Public Safety

- UDIC Safety Immediate precautionary measure, isolated spill or leak area at least 330 ft all directions Keep unauthorized personnel away Stay upwind and/or upstream Vapors are lighter than air



EXCA

Hydrogen Sulfide (H₂S)

 \frown

Highly toxic, colorless gas ER Guide 117 (Pages 170-171)

Workers in oil and natural gas drilling and refining may be exposed because hydrogen suffide may be present in oil and gas deposits and is a by-product of the desulfurization process of these fuels. *OSHA Oil and Gas Well Drilling and Servicing eTool

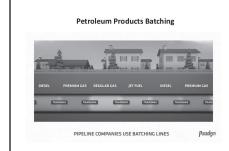
2-5ppm Prolonged exposure may cause nausea and tearing of the eyes

100-150ppm Loss of smell (olfactory fatigue or paralysis)

500-700ppm Staggering, collapse in 5 minutes. Death after 30 to 60 minutes

700-1,000ppm Rapid unconsciousness, "knockdown" or immediate collapse within 1 to 2 breaths, breathing stops, death within minutes

1.000-2.000.ppm Nearly Instant death *https://ewww.osha.gov/SLTC/etools/oilandgas/general safety/h2s monitoring



Above Ground Storage Tanks

Considerations when responding to tank farms/ terminals

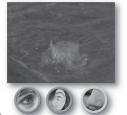
Work with your local operator to:

- Develop an effective response plan
 Identify products and hazards
- Determine evacuation radius
- Response recommendations:
- Cool tank(s) or nearby containers by flooding with water
 Use unmanned hose holders/monitor nozzles
 Do not direct water at safety devices or icing may occur
- Let product burn, even after air supply line/system is closed
- .
- Beware of the potential for Boiling Liquid Expanding Vapor Explosion (BLEVE)



Leak Recognition

- 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
- Dirt blowing up from the ground Bubbling in marshland, rivers or
- creeks Oily sheen appearing on water
- surfaces Frozen ground near a pipeline
- · Unusual noise coming from a pipeline
- Unusual smell or gaseous odor



SOLINE

Local Distribution Systems

Caution

- Be aware, not all natural gas leaks are from excavation; unintended leaks from stoves, water, heaters, furmaces, etc. can occur When called out on natural gas leak events, use combustible gas indicators

- use combustible gas indicators Mercaptan can be stripped as it travels through soil F rost heaves, breaking pipes Gas meter breaks due to snow buildup from melting snow falling from roofs

Excess flow valve meter tags

- Identification tags [192.381(c)]
- entification tags [192.381[c]] The presence of an excess flow valve on the service lines must be marked with an identification tag. The identification tag will typically be located at the top of the service riser below the meter stop valve

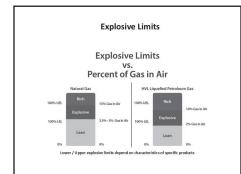


Excess Flow Valve (EFV)

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





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







<section-header>

Pipeline Awareness Training Center

	with others in your crew, company, or agency unable to today's program	TC
	Access to your local pipeline sponsor information	
•	Download the same documents presented in this program	
•	Certificate of completion provided upon completion of course	trainingcenter.pdigm.com
		Use Code: 2025EX
	sioner: Very informative and increased my awareness of the resources ava f an emergency.	lable to our county leadership
Geologi: provideo	d : Concise, informative, appreciate the audio and visual components, and I.	the course documents
Laborer:	Great course, as a reminder of what's out there and how to deal with it.	
PHEP Co	ordinator: Excellent course material, explanation and instruction.	
Safety N Package	fanager: This s a good course to add to our Excavation Safety Program Trai	ning and New Hire Training
Technici	an: Very informative and ESSENTIAL to anyone doing or planning to do any	kind of excavation work!

Program content and slides subject to change

14

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

WARNING WARNING Droduc Droduc Demany Bregency 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



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

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

<u>Fire</u>

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

- SOUND
- A hissing or roaring sound

Common Ground Alliance Best Practices

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.



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

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

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
- Receive Certificate of Completion

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



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



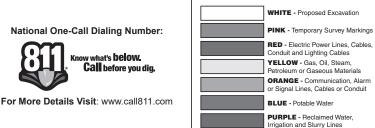
American Public Works Association (APWA) Uniform Color Code

GREEN - Sewers and Drain Lines

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:

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
[SUCH AS: I PROPANE,	ETHANE, E, AND NATURAL	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	Will be easily ignited by heat, sparks or flames and will form explosive mixtures with air. Vapor may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high com- trations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fin may produce irritating and/or toxic gases.		tion without warning and may be toxic if inhaled at high concen- fied gas may cause burns, severe injury and/or frostbite. Fire

PRODUCT	PRODUCT LEAK TYPE		VAPORS
NATURAL G			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 concen trations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.			

PRODUCT	PRODUCT LEAK TYPE		VAPORS
AS: CRUDE			Initially heavier than air and spread along ground and collect in low or confined areas. Vapors may travel to source of igni- tion and flash back. Explosion hazards indoors, outdoors or in sewers.
HEALTH HAZARDS	corrosive and/or to	lation or contact with material may irritate or burn skin and eyes. Fire may produce irritating osive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire contro- lution water may cause pollution.	

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

Common Ground Alliance www.commongroundalliance.com

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

National One-Call Dialing Number: 811 www.call811.com

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

Occupational Safety & Health Administration (OSHA)

www.osha.gov

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/



Register for access to Training Center Code: EX



Operator Information

Operator Name(s) / Contact Information	Type(s) of Pipeline Systems Operating	Location within County	Pipe Size and Operating Pressure Range(s)	Average Emergency Response Time(s)

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





Notes

Notes



SAFETY IS IN YOUR HANDS. EVERY DIG. EVERY TIME.

SAFE DIGGING STARTS HERE

Notifying Indiana 811 about your excavation plans is one of the most important steps in the safe digging process -- but it's not the only step! It's important for you to follow all of the Five Steps to Safe Digging.



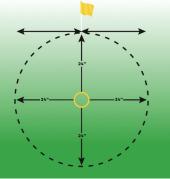


State Laws and Provisions	
Statewide Coverage	Y
Civil Penalties	Y
Emergency Clause	Y
Mandatory Membership	Y
Excavator Permits Issued	N
Mandatory Premarks	N
Positive Response	Y
Hand Dig Clause	Y
Damage Reporting	Y
Notification Exemptions	
DOT	N
Homeowner	Y
Railroad	Y
Agriculture	Y
Depth	N
Notifications Accepted	
Damage	Y
Design	Y
Emergency Clause	Y
Overhead	N
Large Projects	N
Tolerance Zone	
24" + 1/2 the width of the facility on all sides	



INDIANA 811 INFO: Phone: 800-382-5544 or 811 Website: www.indiana811.org Hours: 24 hours, 365 days on all sides

TOLERANCE ZONE







1.877.477.1162 • in.pipeline-awareness.com