MISSISSIPPI



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



EMERGENCY CONTACT LIST

COMPANY

EMERGENCY NUMBER

Atmos Energy	1-866-322-8667
Black Bear Transmission (BBT AlaTenn, LLC / BBT MIDLA, LLC / BBT Mississippi, LLC)	1-844-940-3077
Caledonia Energy Partners LLC	1-877-395-7712
Calgon Carbon	1-228-533-7514
CenterPoint Energy	1-888-876-5786
Chevron Pipe Line Company	1-800-762-3404
City of Vicksburg	1-601-636-1096
Collins Pipeline Company	1-855-887-9768
Corinth Gas & Water Department	1-662-286-2263
Denbury Inc. (ExxonMobil)	1-888-651-7647
Enable Gas Transmission	1-800-474-1954
Energy Transfer Crude Oil	1-800-753-5531
Enmark Energy. Inc.	1-800-841-0977
Enterprise Products Operating, LLC	1-888-883-6308
Enterprise Products Operating, LLC Fayetteville Express Pipeline	1-888-844-8030
Florida Gas Transmission	1-800-238-5066
Genesis Energy, L.P.	1-800-806-5463
Greenleaf CO ₂ Solutions, LLC	1-800-969-2940
Gulf South Pipeline Company, LLC	
Hunt Crude Oil Supply	1-251-771-6953
Hunt Southland Refining Company	1-800-222-7055
Kinder Morgan - Midcontinent Express Pipeline L.L.C.	1-800-733-2490
Kinder Morgan - Southern Natural Gas Company, LLC	1-800-252-5960
Kinder Morgan - Tennessee Gas Pipeline Company, L.L.C.	1-800-231-2800
Leaf River Energy Center LLC.	1-866-966-5732
Mid-Valley Pipeline	1-800-753-5531
Mississippi Hub, LLC	1-888-307-7595
Monroe Gas Storage	
Petroleum Fuels Company	1-800-275-6549
Plains Pipeline, L.P	
Southeast Supply Header	1-866-977-7374
Southern Company Pipelines Southern Pines Energy Center (Toll free)	1-844-357-4656
Southern Pines Energy Center (Toll free)	1-800-688-6593
Spire	1-877-945-5427
Targa Resources Inc	1-800-483-9568
Texas Eastern Transmission L.P. (Enbridge)	1-800-231-7794
Texas Gas Transmission, LLC	1-800-626-1948
Third Coast Midstream	
Toro Energy of Mississippi, LLC	1-800-994-1958
TransMontaigne Operating Company	1-800-732-8140
Treetop Midstream Services	1-800-969-2940
Trunkline Gas	1-800-225-3913
Valero Terminaling and Distribution Company	1-866-423-0898
Valero Partners Operating Co., LLC	1-866-423-0898
Williams Gas Pipeline Transco	1-855-945-5762

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
Mississippi 811	
National One-Call Referral Number	
National One-Call Dialing Number	

2
3
12
13
14
15
16
17
18
19

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 normalized structures, tree
 - ° 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

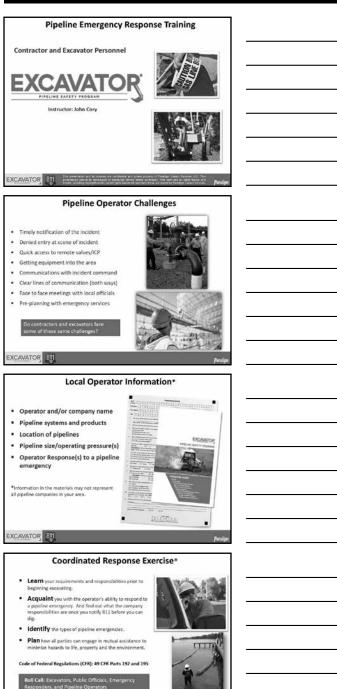
High Consequence Area (HCA) Regulation

- 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

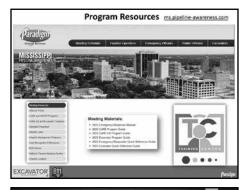
One-Call

- · 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





EXCAVATOR 811





MS 811 Damage Prevention Coordinators

- SECTION Statings South Cherks 9ms811 org. 221 234 1793
- Dest Previous (South) Second (Coltrie Rest Lines) 224-348
- a mis skalings, caentral, robinitimati i org. Asz —/10.0728.
- D. A. my Kern Office, Nurth, 2007/9010331.02(2004-415-2904
- Ellipsic Kent Water All Drug 1, org. 652 469 9722.



Anyone using mechanized digging equipment – whether it is building a equipment – whether it is building a road or bridge, building a fence, digging drainage diches, adding anto-a house or building a new facility – is responsible for contacting Mississippi 811 to ensure that underground utilities are not damaged during excavation.



Current Dig Law Overview

- You must call 811 at least 3 working days before and not more than 10 days prior to digging.
- A locate is only good for [14] calendar days if the project lass longer than 14 calendar days you must update the ficket no more than four and not less than <u>three</u> days before expiration. .



Current Dig Law Overview

- you damage a utility in any way, you <u>must</u> notify the If y immediately and give them time to make repairs ř.
- I you hill a utility and cause a hazardous material leak you must call 911, 811, and the damaged utility Þ
- ieriaus Liability issues can arise if the Law is not followed



Mandatory Electronic Positive Response.

- highers will receive can emotion locate whom all only put in FWS.





How to fill out an AVR

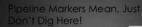
Just remember, it's easy, on-line, and takes about 5 minutes.

It's really Who, What, Where, When, and Why.

Take good time, date stamped photos, show the whole area, not just a hole with a damage.

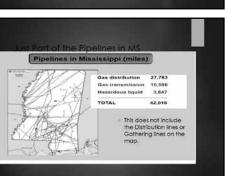
You can also upload, photos, a sketch of the area and any company damage reports.

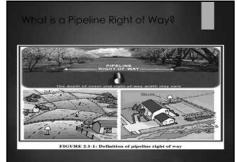


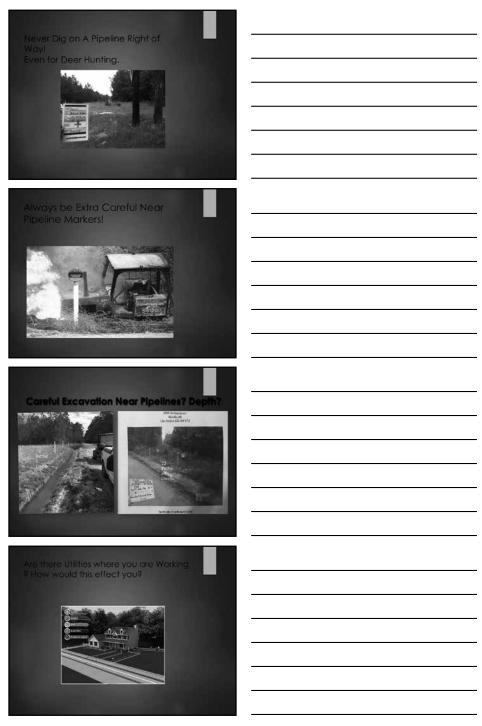


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Three Seconds Later...



EXCAVATOR BI

Dredging Operations

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

- Underground hezardous liquids and natural gas pipelines do traverse lakes and navigable wate ways
- 811 requirements to submit a one-call ticket prior operations commencing, to include a sub-aqueous ticket option
- · Identify all pipeline warning markers near the shorelines where you will be working
- · Contact the pipeline company as part of your preplanning before work begins



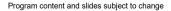
Logging Operator Responsibilities

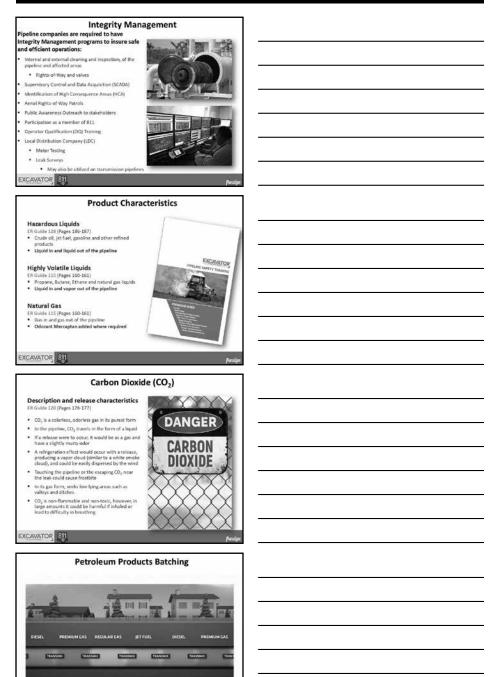
- Notify pipeline company before work begins
- No skidding of logs on right of way Crossing of pipeline must be
- approved Drop cut trees away from pipeline
- · Do not remove existing cover
- · Restore right of way



EXCAVATOR 811



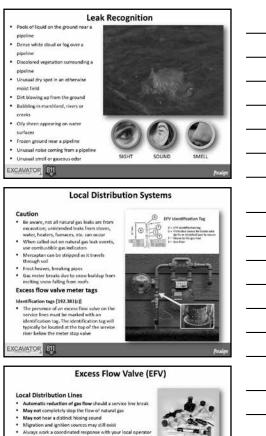




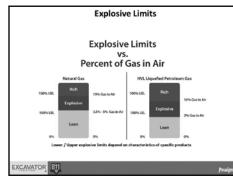
PIPELINE COMPANIES USE BATCHING LINES

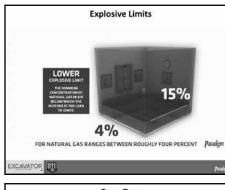
EXCAVATOR 811

Paradigm



Migration and ignition sources may still cell
 Ausy work a coordinated reporter with your local operator
 Not all service lines have an EV 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

EXCAVATOR 81



Horizontal Directional Drilling (Cross Bore)



Pipeline Awareness Training Center

	Access to your local pipeline sponsor information	B
- 25	Download the same documents presented in this program	
•	Certificate of completion provided upon completion of course	trainingcenter.pdigm.com Use Code: 2025EX
	sloner: Very informative and increased my autoreness of the resources avail if an emorgoncy.	lable to our county leadership
Geologia provides	t: Concise, informative, appreciate the audio and visual components, and t L	he course documents
Laborer	Great course, as a reminder of what's out there and how to deal with it.	
PHEP Co	ordinator, Excellent econe material, inglanation and instruction.	
	Grager. This is a good course to add to our Excavation Safety Program Train	ing and New Hire Training
Safety N Package		



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

Product International Action of the second s

- 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.



*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



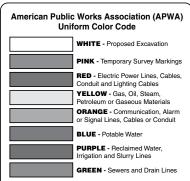
Call Before You Dig

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.



For More Details Visit: www.call811.com



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: PROPANE, PROPYLEN	HIGHLY VOLATILE LIQUIDS [SUCH AS: BUTANE, PROPANE, ETHANE, PROPYLENE, AND NATURAL GAS LIQUIDS (NGL)] Will be easily ignited HEALTH may cause dizziness		Initially heavier than air, spread along ground and may travel to source of ignition and flash back. Product is colorless, tasteless and odorless.
	may cause dizzines	s or asphyxia h gas or lique	rks or flames and will form explosive mixtures with air. Vapors tion without warning and may be toxic if inhaled at high concen- fied gas may cause burns, severe injury and/or frostbite. Fire c gases.

PRODUCT		LEAK TYPE	VAPORS				
NATURAL GAS		Gas Lighter than air and will generally rise and dissipate. gather in a confined space and travel to a source of ig					
HEALTH HAZARDS	Will be easily ignited may cause dizzines trations. Contact wit	l by heat, spa s or asphyxia h gas or lique	rks or flames and will form explosive mixtures with air. Vapors tion without warning and may be toxic if inhaled at high concen- fied gas may cause burns, severe injury and/or frostbite.				

PRODUCT		LEAK TYPE	VAPORS
AS: CRUDE FUEL, JET F AND OTHEF	ZARDOUSLIQUIDS[SUCH : CRUDE OIL, DIESEL EL, JET FUEL, GASOLINE, D OTHER REFINED ODUCTSI		
HEALTH HAZARDS	Inhalation or contac corrosive and/or to or dilution water ma	t with materia tic gases. Vap ty cause pollu	al may irritate or burn skin and eyes. Fire may produce irritating, oors may cause dizziness or suffocation. Runoff from fire control ition.

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

Notes



YOUR DAMAGE PREVENTION RESOURCE CENTER

Safety is a shared responsibility. As an emergency responder, you play an important role in raising awareness and preventing excavation incidents. For example, Mississippi law requires anyone digging, regardless of depth, to call **MS811** at least three working days prior to the start of excavation. The 72 hour notice does not include Saturdays, Sundays or holidays. In other words, all excavators working in your community must have a valid locate request ticket. The only exception is a property owner who is digging less than 12 inches in depth without the use of mechanical excavating equipment; or the tilling of soil less than 24 inches in depth for agricultural purposes.

MS811 promotes an easier, safer digging environment and serves the entire state of Mississippi. The not-for profit organization serves as a message handling service for member facility owners and operators, taking information about planned excavations and distributing this information to its membership. It is then the responsibility of each member to mark the location of their underground facilities at the excavation site. **MS811** is not a utility and does not locate any underground facilities.

Call center operators at **MS811** are available 24 hours a day, seven days a week to receive and process calls to the toll-free phone number (1-800-227-6477) or 811. For more information, including free safety materials that can be distributed at community events, contractor meetings and other appropriate venues, please visit www.ms811.org or contact the Damage Prevention Coordinators at 601-362-4322. **MS811** Damage Prevention Coordinators are also available for presentations and safety meetings.

	Т	ICKE	TS	STATE LAWS & PROVISIONS								NOTIFICATION EXEMPTIONS						NOTIFICATIONS ACCEPTED						
MISSISSIPPI													ROW*											í
Mississippi 811, Inc.: 800-227-6477 or 811 Website: www.ms811.org Hours: 24 hours, 7 days Tickets Fax: 601-362-7533 Advance Notice: No less than three (3) no more than ten (10) working days Marks Valid: 14 calendar days** Law Link: https://www.ms811.org/law/	FAX	Online	Mobile	Statewide Coverage	Civil Penalties	Emergency Clause	Mandatory Membership	Excavator Permits Issued	Mandatory Premarks	Positive Response	Hand Dig Clause	Damage Reporting	Routine Maintenance within RO	DOT	Homeowner	Railroad	Agriculture	Depth	Damage	Design	Emergency	Overhead	Large Projects	Tolaranca Zona
*Applies to Government Entities Only **Locate requests are good for 14 calendar days from the date that the ticket is processed. When marks are placed can vary due to holidays and weekends ***Exempt to death of 12* with non-mechanized equipment	Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	N	12"	N	Y ***	Y	24"	12"	Y	Y	Y	N	N	18

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





1.877.477.1162 • ms.pipeline-awareness.com