

# 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

# **EMERGENCY CONTACT LIST**

COMPANY	EMERGENCY NUMBER
Ameresco	1-866-497-2284
Bluewater Gas Storage, LLC	1-877-427-2583
BP Pipelines (North America), Inc.	1-800-548-6482
Buckeye Partners, L.P.	1-800-331-4115
CITGO Petroleum Corporation	
Consumers Energy	1-800-382-0015
DCP Operating Company, LP	1-888-233-8360
or	1-989-939-8360
DTE Gas Company	
DTM Gas Storage Company	1-877-697-2028
DTM Michigan Lateral Company	
Enbridge (US), Inc.	1-800-858-5253
Energy Transfer	
Holland Board of Public Works	
Kinder Morgan Utopia, LLC	1-800-265-6000
Lambda Energy Gathering LLC / Lambda Gathering LLC	1-877-258-3219
Michigan Gas Utilities	
Mid-Valley Pipeline	
Midland Cogeneration Venture	1-877-246-5100
NEXUS Gas Transmission, LLC (Operated by Enbridge)	1-855-329-1781
NGL Supply Terminal Company, LLC	
Northern Natural Gas	
NOVA Chemicals Corporation	1-800-278-0584
Panhandle Eastern Pipe Line	
Pembina Cochin LLC	
Plains Pipeline, L.P.	
Rover Pipeline	
Semco Energy Gas Company	
Sunoco Pipeline L.P. (NGL)	
Sunoco Pipeline L.P. (Refined Products)	
Upper Michigan Energy Resources Corp. (Menominee County	
Upper Michigan Energy Resources Corp. (Dickinson & Iron Co	ounties) <b>1-800-261-5325</b>
VCP Michigan, LLC	
Vector Pipeline	
Wolverine Pipe Line Company	
Xcel Energy	1-800-895-2999

Note: The above numbers are for emergency situations.

Additional pipeline operators may exist in your area.

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

ONE-CALL SYSTEM	PHONE NUMBER
MISS DIG System, Inc	1-800-482-7171
National One-Call Referral Number	
National One-Call Dialing Number	811

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## Overview

# **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

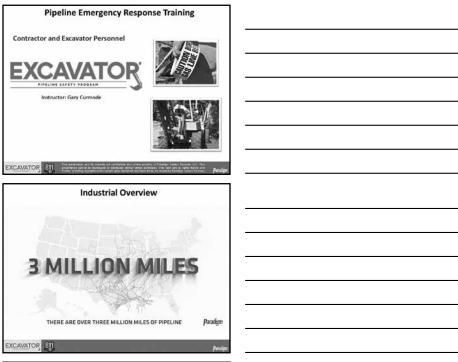
# **High Consequence Area (HCA) Regulation**

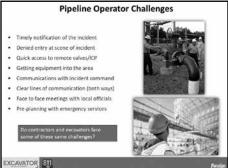
- · Defined by pipeline regulations 192 and 195
- Requires specialized communication and planning between responders and pipeline/gas personnel
- · May necessitate detailed information from local response agencies to identify HCAs in area

## 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







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<ul> <li>Operator and/or company name</li> </ul>	- TOTAL AND THE PARTY OF THE PA
<ul> <li>Pipeline systems and products</li> </ul>	Treatment and
Location of pipelines	
<ul> <li>Pipeline size/operating pressure(s)</li> </ul>	PPENS MUTT TAKEN
<ul> <li>Operator Response(s) to a pipeline emergency</li> </ul>	The second secon
*Information in the materials may not represent all pipeline companies in your area.	Singuistics of the second of t
	DOSELLE .

# Coordinated Response Exercise\* Learn your requirements and responsibilities prior to beginning exavating. Acquaint you with the operator's ability to respond to a populine emergency. And find our, what the company responsibilities are once you notify 811 before you can dig. Identify the types of pipeline emergencies. Plan how all parties can engage in mutual assistance to maintile hazards to life, property and the environment. Code of Federal Regulations (CFR): 49 CFR Parts 192 and 195 Roll Call: Excavators, Public Officials, Emergency Responders, and Pripeline Operators EXCAVATOR 811



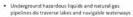


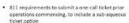


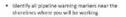


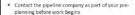
# **Dredging Operations**

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













EXCAVATOR 811

Paniga

# **Logging Operator Responsibilities**

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



EXCAVATOR 811

EXCAVATOR 811

Paniga

# Right-of-Way (ROW) and Pipeline Markers



# **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)

  - Lirak Surveys
- May also be utilized on trans





# **Product Characteristics**

# Hazardous Liquids

- ER Gulde 128 (Pages 186-187)

  Crude oil, jet fuel, gasoline and other refined products
- . Liquid in and liquid out of the pipeline

# Highly Volatile Liquids

ER 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 eas out of the opening





# **Petroleum Products Batching**



# **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
- 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
- Let product burn, even after air supply line/system is closed
- Beware of the potential for Boiling Liquid Expanding Vapor Explosion (BLEVE)





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# **Leak Recognition** Pools of liquid on the ground near a Dense white cloud or fog over a Discolored vegetation surrounding a 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 EXCAVATOR BIT





**Local Distribution Systems** 

# Gas meter breaks due to snow buildup from melting snow falling from roofs Excess flow valve meter tags

## ntification tags [192.381(c)]

Frost heaves, breaking pipes

 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



EXCAVATOR 811

Excess Flow Valve (EFV)

# **Local Distribution Lines**

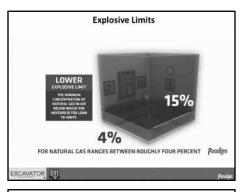
- Automatic reduction of gas flow should a service line break May not completely stop the flow of natural gas
- May not hear a distinct hissing sound
- Migration and ignition sources may still exist
- ys work a coordinated response with your local oper
- Not all service lines have an EFV installed





**Explosive Limits Explosive Limits** Percent of Gas in Air 0% EXCAVATOR 811

# Program content and slides subject to change



# 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



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Paradga

# Horizontal Directional Drilling (Cross Bore) NATURAL GAS LINE FIBER OPTIC LINE THROUGH A SEWAGE LINE, LOCAL DISTRIBUTION, TRANSMISSION PARAGem EXCAVATOR 811

# Pipeline Awareness Training Center Share with others in your crew, company, or agency unable to attend today's program • Access to your local pipeline spontage information • Downhold the same documents presented in this program • Certificate of completion provided upon completion of course training center, editions, complete the early and assessment of the resources available to use county feedership in use of an entergency. Commissioner: Very informative and increased in your exercises of the resources available to use county feedership in use of an entergency. Complete Course, informative, approach the early and issued composition. A course of the course, in a reminder of what's out there and hour to deal incident. Safety, Menager: This is a good course to add to come transition safety Program Tearing and New Yes that larging process. Technician: Very informative and ESENTIAL to arrive ended on the course of the resources available to the course of the course of the resources available to the course of the resources available to the course of the course of the resources available to the resources available to the course of the resources available to the course of the course of the resources available to the resources available to the course of the resources available to the resources

# **Excavation Best Practices Jobsite Checklist**

#### **EXCAVATOR RESPONSIBILITIES:** ■ White Lining (Pre-marking) Call Before You Dig - It's the Law! □ One Call Facility Request Wait the required time for the markings! □ One Call Access (state specific time - check your local One Call Locate Reference Number Law) □ Tolerance Zones – May vary by state and/or company! □ Separate Locate Request □ Respect the marks! Pre-excavation Meeting Dig with care! ☐ Facility Relocations One Call Reference Number at Site RISK CONSIDERATIONS Contact Names and Numbers □ Type/volume/pressure/location/geography of ¬ Positive Response product Facility Owner/Operator Failure to Respond □ Environmental factors – wind, fog, temperature, humidity □ Locate Verification ☐ Sight, sound, smell – indicators vary depending on ☐ Work Site Review with Company Personnel product Documentation of Marks □ Black, dark brown or clear liquids/dirt blowing into ☐ Facility Avoidance air/peculiar odors/dead insects around gas line/ Marking Preservation dead vegetation Excavation Observer □ Rainbow sheen on the water/mud or water bubbling up/frozen area on ground/frozen area around gas □ Excavation Tolerance Zone □ Excavation within the Tolerance Zone Other utility emergencies ¬ Vacuum Excavation PIPELINE MARKERS Exposed Facility Protection The U.S. Department of Transportation (DOT) requires the use of signs to indicate the location of underground Locate Request Updates pipelines. Markers like these are located on road, ☐ Facility Damage Notification railroad, and navigable waterway crossings. Markers ■ Notification of Emergency Personnel are also posted along the pipeline right-of-way. Markers may not be located directly over the pipeline it marks. Emergency Coordination with Adjacent Facilities ■ Emergency Excavation The markers display: □ Backfilling ☐ The product transported As-built Documentation □ The name of the pipeline operator ☐ The operator's emergency number □ 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 areen area
- · Dirt blowing into the air
- White vapor cloud
- · Frozen area on ground
- \*Signs vary based upon product

#### SMFII

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

- Nausea

## OTHER - NEAR PIPELINE OPERATIONS

- · Burning eyes, nose or throat

# 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:

SQUND

· A hissing or roaring sound

- 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

# 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
- 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



# 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

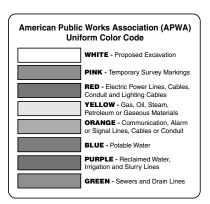
Statistics indicate that damage from excavation related activities is a leading cause of pipeline accidents. If you are a homeowner, farmer, excavator, or developer, we need your help in preventing pipeline emergencies.

- 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



# 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 VOLA [SUCH AS: BU PROPANE, ET PROPYLENE, GAS LIQUIDS	ITANE, HANE, 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.									
			rks or flames and will form explosive mixtures with air. Vapors									

HEALTH 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.
		l by heat, spa s or asphyxia h gas or lique	orks or flames and will form explosive mixtures with air. Vapors tion without warning and may be toxic if inhaled at high concen- rified gas may cause burns, severe injury and/or frostbite.

PRODUCT		LEAK TYPE	VAPORS
AS: CRUDE		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	correcive and/or tox	ic gases. Va <mark>r</mark>	al may irritate or burn skin and eyes. Fire may produce irritating, pors may cause dizziness or suffocation. Runoff from fire control tion.

# Pipeline Damage Reporting Law / Websites

# Pipeline Damage Reporting Law As Of 2007

# **H.R. 2958 Emergency Alert Requirements**

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

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

# Websites:

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)

# **About Paradigm**

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

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

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

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

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

Contact Paradigm for more information regarding custom public awareness solutions.

# Contact us:

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







# **Utility Damage Prevention Notification Center**

(Open 24/7, 365 days a year)

For additional information: MISS DIG 811

3212 Sjoquist Dr Gladstone, MI 49837

Email: education@missdig811.org

# Services:

Michigan's utility notification system provides state-wide one-call coverage. *In the event of a damaged line, please contact the facility owner/operator immediately.* 

# www.missdig811.org

	TICKETS STATE LAWS & PROVISIONS					NOTIFICATION EXEMPTIONS						NOTIFICATIONS ACCEPTED												
MICHIGAN				Coverage	S	Clause	Membership	Permits Issued	Premarks	esbouse	Clause	Reporting						_					S	
MISS DIG 811: Call 811 Website: www.missdig811.org Hours: 24 hours, 7 days Advance Notice: 3 business days (excluding weekends and	FAX	Online	Mobile	Statewide Co	Civil Penalties	-		Excavator Pe	$\succeq$		Hand Dig Cla	Damage Rep	MDOT	Homeowner	Railroad	Agriculture	Depth	Marine Option	Damage	Design	Emergency	Overhead	Large Projects	Caution Zone
holidays)  Marks Valid: 21 days or 180 days  Law Link: http://primis.phmsa.dot.gov/comm/DamagePreventionSummary.htm	N	Υ	Υ	Υ	Y	Υ	Υ	N	N	Y	Υ	Y	N	N	N	N	N	Y	Υ	Υ	Υ	N	Y	48



