

NEW MEXICO



Coordinated Response & Excavator Exercise® PIPELINE SAFETY TRAINING



PROGRAM GUIDE

Overview

Pipeline Safety

Exercise Outline

Emergency Response Guidebook

NENA Pipeline Emergency Operations

Signs Of A Pipeline Release

High Consequence Areas Identification

Pipeline Industry ER Initiatives

Pipeline Damage Reporting Law

2024

EMERGENCY CONTACT LIST

COMPANY	EMERGENCY NUMBER
Centurion Pipeline	1-800-765-8695
Chevron U.S.A. Inc.	1-432-366-3081
Crestwood New Mexico Pipeline LLC	1-866-234-7473
DCP Operating Company, LP	1-888-204-1781
or	1-800-435-1679
Delek Logistics Partners, LP	1-800-344-5325
Double E Pipeline LLC	1-888-643-7929
El Paso Natural Gas Company	1-800-334-8047
El Paso Natural Gas / Kinder Morgan	1-800-334-8047
Energy Transfer Gas	1-877-404-2730
or	1-800-375-5702
Energy Transfer Liquids	1-877-839-7473
or	1-888-844-8134
or	1-800-753-5531
EnLink Midstream	1-877-593-0822
Enterprise Crude Pipeline, LLC	1-888-883-6308
Enterprise Products Operating LLC / Carlsbad Gathering	1-888-883-6308
Enterprise Products Operating LLC / Chaparral Pipeline	1-888-883-6308
Enterprise Products Operating LLC / Mid-America Pipeline	1-888-883-6308
EPIC Consolidated Operations, LLC	1-888-762-3811
ExxonMobil Pipeline Company	1-800-537-5200
Grama Ridge Storage and Transportation, LLC	1-877-395-7712
Holly Energy Partners - Operating LP	1-877-748-4464
Howard Energy Partners	1-866-504-8891
IACX Roswell	1-575-626-3956
JET Infrastructure Holdings	1-877-465-1788
Kaiser-Francis Oil Company	1-800-876-7023
Kinder Morgan CO2 Company, LP	1-877-390-8640
LM Energy Partners	1-866-851-7475
Longwood RB Pipeline, LLC	1-972-371-5200
Magellan Midstream Partners, L.P.	1-800-720-2417
MPLX	1-888-658-8006
New Mexico Gas Company, Inc	1-888-664-2726
Northern Natural Gas Company	1-888-367-6671
Northwind Midstream Partners LLC	1-800-954-1888
NuStar Logistics, L.P.	1-800-481-0038
Occidental	1-800-519-8225
OXY Bravo Pipeline	1-800-519-8225
Permian Resources	1-432-699-9345
Petroleum Fuels Inc.	1-800-275-6549
Phillips 66 Pipelines LLC	1-877-267-2290
Plains Pipeline, L.P.	1-800-708-5071
Pronto Midstream, LLC	1-972-371-5400
San Mateo Midstream	1-972-371-5203
SCM Operations, LLC	1-800-807-3628
SPC Resources, LLC	1-800-994-1834
Stakeholder Midstream	1-844-296-0550
Targa Downstream LLC - Grand Prix Pipeline	1-800-483-9568
Targa Resources Inc (Gas)	1-800-722-7098
Targa Resources Inc (Liquid)	1-800-483-9568
Transwestern Pipeline	1-866-999-8975
Trinity Pipeline, LP / Trinity Pipeline GP LLC (Collect)	1-432-297-1004
Western Midstream	1-800-284-6799
XTO Energy Inc	1-832-625-1100

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
NM811	1-800-321-2537
National One-Call Referral Number	1-888-258-0808
National One-Call Dialing Number811

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Pipeline Purpose and Reliability

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

Safety Initiatives

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

Product Hazards and Characteristics**Petroleum (flow rate can be hundreds of thousands of gallons per hour)**

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

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

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

- Flammable range may be found anywhere within the hot zone
- Rises and dissipates relatively quickly
- H₂S can be a by-product of natural gas – PPM = PARTS PER MILLION
 - 0.02 PPM Odor threshold
 - 10.0 PPM Eye irritation
 - 100 PPM Headache, dizziness, coughing, vomiting
 - 200-300 PPM Respiratory inflammation within 1 hour of exposure
 - 500-700 PPM Loss of consciousness/possible death in 30-60 min.
 - 700-900 PPM Rapid loss of consciousness; death possible
 - Over 1000 PPM Unconsciousness in seconds; death in minutes
- Incomplete combustion of natural gas may release carbon monoxide
- Storage facilities may be present around populated areas/can be depleted production facilities or underground caverns
- Gas travel may be outside the containment vessel along the natural cavern between the pipe and soil

Propane, Butane and Other Similar Products

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

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

Line Pressure Hazards

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

Leak Recognition and Response

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

High Consequence Area (HCA) Regulation

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

Emergency Response Basics

- Always follow pipeline/gas company recommendations – pipeline representatives may need escort to incident site
- Advance preparation
 - Get to know your pipeline operators/tour their facilities if possible
 - Participate in their field exercises/request on-site training where available
 - Develop response plans and practice
- Planning partners
 - Pipeline & local gas companies
 - Police – local/state/sheriff
 - Fire companies/HAZMAT/ambulance/hospitals/Red Cross
 - LEPC/EMA/public officials
 - Environmental management/Department of Natural Resources
 - Army Corps of Engineers/other military officials
 - Other utilities
- Risk considerations
 - Type/volume/pressure/location/geography of product
 - Environmental factors – wind, fog, temperature, humidity
 - Other utility emergencies
- Incident response
 - Always approach from upwind/park vehicle a safe distance away/if vehicle stalls – DO NOT attempt to restart
 - Gather information/establish incident command/identify command structure
 - Initiate communications with pipeline/gas company representative ASAP
 - Control/deny entry: vehicle, boat, train, aircraft, foot traffic, media – refer all media questions to pipeline/gas reps
- Extinguish fires only
 - To aid in rescue or evacuation
 - To protect exposures
 - When controllable amounts of vapor or liquid present
- Incident notification – pipeline control center or local gas company number on warning marker
 - In **Pipeline Emergency Response Planning Information Manual**
 - Emergency contact list in **Program Guide**
 - Call immediately/provide detailed incident information
- Pipeline security – assist by noting activity on pipeline/gas facilities
 - Report abnormal activities around facilities
 - Suspicious excavation/abandoned vehicles/non-company personnel/non-company vehicles
 - Freshly disturbed soil/perimeter abnormalities

One-Call


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

CORE-EX Pipeline Emergency Response Training

First Responders and Contractor/Excavator Personnel


CORE-EX®
COORDINATED RESPONSE & EXCAVATOR EXERCISE

Instructor:



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CORE-EX Continuing Education Unit (CEU) Opportunities

 NEW MEXICO BOARD OF LICENSURE FOR
PROFESSIONAL ENGINEERS & PROFESSIONAL SURVEYORS

Well Drillers are authorized for 1.5 hours
CEUs for attending this course by the New
Mexico Board of Licensure for Professional
Engineers & Professional Surveyors

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CORE-EX 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.

Register for access at: <https://my.spatialobjects.com/>


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CORE-EX Coordinated Response Exercise®

- **Learn** your roles and responsibilities as emergency responders should a pipeline emergency happen in your jurisdiction – as well as your access to resources. Excavators – learn your responsibilities prior to calling 811
- **Acquaint** you with the operator's ability to respond to a pipeline emergency. Excavators – find out 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 minimize hazards to life, property and the environment.

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

Roll Call: Emergency Responders, Public Officials, Excavators & Pipeline Operators



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CORE-EX Program Resources dcpnm.com

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Energy Services

Meeting Schedule | Pipeline Operators | Emergency Officials | Public Officials | Trainers

NEW MEXICO
Pipeline Authority

COMMITMENT TO SAFETY

Program Resources:

- Emergency Plans
- CARE and ERP/ERP Programs
- CARE/ERP/ERP Program
- Emergency Procedures
- Emergency Alerts
- Emergency Management Programs
- Leak Investigation & Response
- ERP/ERP
- Emergency Response Meeting Guides
- Emergency Location

Meeting Materials:

- 2012 Emergency Response Manual
- 2012 CARE Program Guide
- 2012 CARE/ERP Program Guide
- 2012 CARE/ERP Program Guide
- 2012 CARE/ERP Program Guide
- 2012 CARE/ERP Program Guide

CORE-EX Program Resources

CARE
COORDINATED RESPONSE EXERCISE
Pipeline Safety Training For First Responders

EMERGENCY RESPONSE MANUAL
2014

**Carbon Dioxide (CO₂)
Emergency Response
Tactical Guidance Document**
Guidelines for Responders
and Public Awareness of Pipeline Risks
of Carbon Dioxide (CO₂)
August 2014

API **ISOP** **ISPS**

<https://www.api.org/~/media/Files/publications/care/caremanualtechnical.pdf>

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PUBLIC REGULATION COMMISSION
PIPELINE SAFETY BUREAU

The mission of the Pipeline Safety Bureau is to:
educate, ensure and enforce
SAFE gas and hazardous liquid pipeline systems; and
SAFE excavation.

Key Elements to Preventing Excavation Damage

- Effective laws and regulations
- Effective enforcement
- Educating stakeholders
 - Public awareness
- Industry compliance

Public Outreach

Progress Has Been Made!



Know what's below.
Call before you dig.

- More people call 811 before they excavate but most don't know exactly what 811 does.
- More people know what to do when they see a pipeline marker.
- More stakeholders seek engagement with utilities in their community!

Top DP Issues from 2021/2022

- 1) Failure to mark/properly mark within advance notice period = Failure to provide positive response
- 2) Failure to maintain marks
- 3) Failure to maintain 18" tolerance zone
- 4) Failure to complete job within time requisite
- 5) Failure to report 3rd party damages – Contractor vs Utility

INITIATIVES AND DIRECTION

- ▶ "Change Behavior" - We cannot become what we need to be by remaining what we are.
 - ▶ Address 5 Top Enforcement Issues from 2022/2023
- ▶ Implement developed online educational training program (3rd Party) – In place since October 2023.
- ▶ "Midnight Rule" adopted and in place since July 2023
- ▶ Maintain an effective enforcement safety program
 - ▶ Reset button hit January 1, 2024
 - ▶ No tolerance for certain violations
 - ▶ Enforcing positive response via Warning tickets monthly. Will result in civil penalties.

INITIATIVES AND DIRECTION

The Good:

- ▶ New Rules forthcoming!
 - ▶ Mandatory excavator conference requests attendance.
 - ▶ Seeking industry feedback and recommendations.
- ▶ Highly Recommended - NMRCGA Conference and Expo 2024!

The Bad and Ugly:

- ▶ No tolerance on:
 - ▶ Calling 811 Before You Dig! - \$5,000 fine automatically.
 - ▶ Mark conflicting utilities within 2-full business days. 10th fines forthcoming.
 - ▶ Blind boring - Automatic fine TBD based on historical performance.
 - ▶ Maintaining 18 inches from cutting edge of mechanical equipment and marks.

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PIPELINE SAFETY BUREAU

South of I-40
(505) 231-5204 – Joe Lopez
Albuquerque Metro Area
(505) 629-3564 – Ricardo Herrera
North of 550
(505) 795-0969 – Joaquin Pineda

Pipeline Emergencies: 505-490-2375

What's New

As of January 2024, Tickets processed after 4:00pm MST will be considered a same day ticket and will no longer be postdated.


Damage Reporting is moving from Kor Insight to Irth/Ublisphere for damage incidents occurring after 12/15/2023

Using GPS

Whitelining in rural areas is required when no GPS is available.

A single GPS/white marking may be used to spot the area for excavation within a 50ft radius.

Your request will be suspended if white lining or GPS requirements are not met.



Positive Response

Positive Response is required by law and must be registered in the NM811's System no later than the time stamp on the ticket.

"Site is Clear" or "Area is Marked" are the only acceptable positive responses. All other responses require clarifying notes and may result in a Warning Ticket being issued.

Warning Tickets

Issued when Positive Response is not recorded in NM811 system by the work to begin date on ticket (Time Stamp)

Facility operators **MUST** provide Positive Response within 2 hours, multiple Warnings can be issued on same ticket

PSB is notified on every Warning ticket issued by NM811 and every warning carries a fine by the PSB

Damages to Underground Facilities

Reporting Damages to underground facilities is required by law.

Stop Excavation and call 911 if appropriate.
Call the utility owner to report the damage.
Call 811 to complete a damage report ticket.

Secure the site and keep people at a safe distance
Do not leave the scene until instructed by the emergency responder or utility owner

Do not resume work until cleared by utility owner

Get Involved in Damage Prevention

Email membership@nm811.org to receive information about sessions in Hobbs, Las Cruces, Carlsbad, Aztec, Farmington and Albuquerque.

Email NMRCA@nm811.org to stay updated about conferences and classes.

Visit www.nm811.org for damage prevention resources or call 505-254-7310 option 3 to schedule a NM Excavation Law class for your staff.

Save the Date

New Mexico Regional Common Ground Alliance
DAMAGE PREVENTION SUMMIT

Late October 2024

Isleta Resort and Casino
11000 Broadway SE, Albuquerque, NM 87105

Information: membership@nm811.org or nmrca@nm811.org

Contact Us

505-254-7310

Membership Outreach
Parker Bame
Operations Coordinator
Samuel Hernandez
Data Coordinator
Annette Sunda
Mapping Department
Brendan Kearns
Operations Manager
Laura Harrison
Executive Director
Domingo Sanchez III



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 option
- 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



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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



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Integrity Management

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

- Internal and external cleaning and inspection, of the pipeline and affected areas
 - 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 pipelines



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Pipeline Operators Emergency Response Plans

Natural gas and hazardous liquids

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

Natural gas (49 CFR 192.615)

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

Hazardous liquid (49 CFR 195.402)

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

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Coordinated Response Exercise®

Discussion Based Exercise

Natural Disasters

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

Human Error

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

National Security Threats

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

These training programs can also go hand in hand with Homeland Security Exercise and Evaluation Programs (HSEEP)



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Virtual Scenario Manager (VSM™) Map



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Coordinated Response Exercise Discussion

Discussion Questions

- **Pipeline Operators:** How do you typically find out about an emergency, and what protocols go into effect when a product release occurs on your system that your local emergency responders may not be aware of (behind the scenes)?
- **Emergency Responders:** How will we deliver coordinated, prompt, reliable and actionable information to the whole community about what is happening? (Mission: Response; Public Information & Warning)
- **Pipeline Operators:** Do you always know where emergency responders will set up an Incident Command Post (ICP)?
- **Emergency Responders:** How will we establish and maintain a unified and coordinated operations structure that appropriately integrates all critical stakeholders and supports the execution of core capabilities? (Mission: Response; Operational Coordination)
- **Excavators/ Contractors:** What things would you be doing when notified of this event?

References

Coordinated Response Exercise Discussion

Discussion Questions

- Pipeline Operators:** How will you get access to the scene if a secured perimeter has been established?
- Emergency Responders:** How will we conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all hazards in support of responder operations and the affected communities? (Mission: Response; Environmental Response/ Health & Safety)
- Pipeline Operators:** How will you typically handle communications?
 - At the scene between pipeline operators?
 - At the scene between pipeline operators and the ICP / other emergency responders?
 - Between field pipeline personnel and Control Centers / SCADA Centers?
- Emergency Responders:** How can we ensure the capacity for timely communications in support of security, situational awareness, and operations by any and all means available, among and between affected communities in the impact area and all response forces? (Mission: Response; Operational Communications)

Discussion-Based Exercise Recap

- 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 some of these same challenges?

National Emergency Number Association

Pipeline Emergency Operations Standard

NENA's pipeline emergency operations workgroup recommendations

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

Initial intake checklist

- Quick reference guide in program materials

Pipeline emergency operations standard/model recommendations

- Access the full report through nena.org

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

New PHMSA Rule – Impact on PSAPs

For both natural gas and hazardous liquids pipelines

- Rupture mitigation valves must be installed on all newly constructed and replaced pipelines 6" in diameter or greater for onshore gas transmission, Type A gas gathering and hazardous liquid pipelines
 - This does not include natural gas distribution pipelines
- Pipeline operators must contact 9-1-1 or Emergency Management with a "notice of potential rupture"

How does this rule potentially affect PSAPs

- How will your agency process this call when notified of a "potential" release?
 - Will you record it and not pass it on to your response agencies?
 - Will you record and pass that information on to your response agencies?
 - Will this require your PSAP (and emergency services) to develop written policies?
 - Where, potentially, could this call be coming from?
- Pipeline control center locations
 - Contacting a PSAP through the non-emergency number (no Automatic Number Identification (ANI), No Automatic Location Identification (ALI))
 - Is this number monitored 24/7?
- Pipeline operators were required to update their Emergency Response Plan (ERP) with this requirement in October 2022.

Program content and slides subject to change

CORE-EX **Hydrogen Sulfide (H₂S)**

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

Workers in oil and natural gas drilling and refining may be exposed because hydrogen sulfide 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

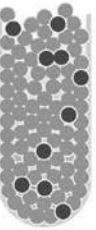
100-150ppm
Loss of smell (olfactory fatigue or paralysis)

500-700ppm
Stagorring, 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

1,000-2,000ppm
Nearly instant death

*https://www.osha.gov/SLC/etools/oilandgas/general_safety/h2s_monitoring.html



CORE-EX **Petroleum Products Batching**

Pipeline Products Batching




CORE-EX **Emergency Response and 811**

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

PHMSA Advisory Bulletin (2012-08)

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

811



CORE-EX **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:

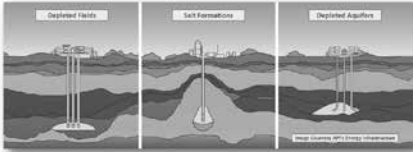
- Cool tank(s) or nearby containers by flooding with water
- Use unmanned hose holders/monitor nozzles
- Do not direct water at safety devices or icing may occur
- Let product burn, even after air supply line/system is closed
- Beware of the potential for Boiling Liquid Expanding Vapor Explosion (BLEVE)

CORE-EX Underground Storage Fields

Emergency response "non-intervention"

- Emergency contact information found on pipeline markers and all wellhead locations
- Always be aware of wind direction; walk into the wind, away from hazardous fumes
- Do not drive into a leak or vapor cloud
- Monitor combustible atmosphere
- Determine hazardous area and escape routes



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CORE-EX Local Distribution Systems

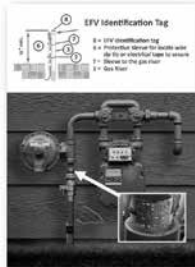
Caution

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

Excess flow valve meter tags

Identification 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



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CORE-EX Excess Flow Valve (EFV)

Local Distribution Lines

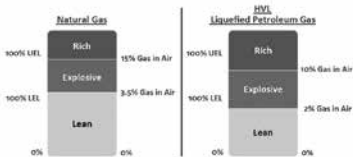
- Automatic reduction of gas flow should a service line break
- May not completely stop the flow of natural gas
- May not hear a distinct hissing sound
- Migration and ignition sources may still exist
- Always work a coordinated response with your local operator
- Not all service lines have an EFV installed



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CORE-EX Explosive Limits

Explosive Limits vs. Percent of Gas in Air



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CORE-EX **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 distribution company from a safe distance
- The lines after a farm tap or residential meter are PRIVATE LINES. Be aware of these.



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CORE-EX **InfraGard – Protecting Critical Infrastructure**

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



16 Critical Infrastructure Sectors:

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

<https://infogard.org>

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CORE-EX **Emergency Response Portal (ERP)**

PHMSA Advisory Bulletin issued October 2010
<https://www.speicalbulletins.com/admin/treaties/ERP/>

Provides agencies secure access to participating pipeline operator profiles include:

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

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



Paragon

CORE-EX **Pipeline Preparedness Training Center**

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

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

Emergency Officials Use Code: 2024CORE Excavators Use Code: 2024EX

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

Sanitation Chief: Thank you for the information. I also like the fact of being able to take the course online before I can make the live session.

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

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

Fire Chief: Thank you for providing this informative course. It would like to see more courses like this. It is a very good review and helps us tremendously.

Geologist: Concise, informative, appreciate the audio and visual components, and the course documents provided.

Police Chief: This training is very informative, and I will pass this onto our Fire Department and our Law Enforcement Supervisors. Great job!!

Safety Manager: This is a good course to add to our Excavation Safety Program training and New Hire training. The high!

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Product INFORMATION



The Emergency Response Guidebook is available at:
<https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2021-01/ERG2020-WEB.pdf>



This app is only available on the App Store for iOS devices.

EMERGENCY RESPONSE PLANS FOR GAS AND HAZARDOUS LIQUID PIPELINE OPERATORS

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

Natural Gas

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

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

**Reference 49 CFR 192.615*

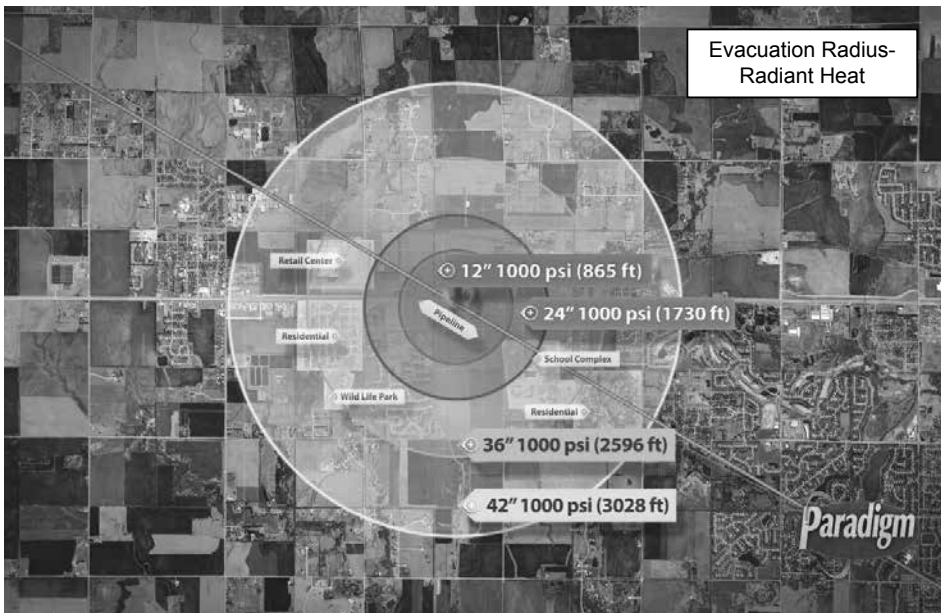
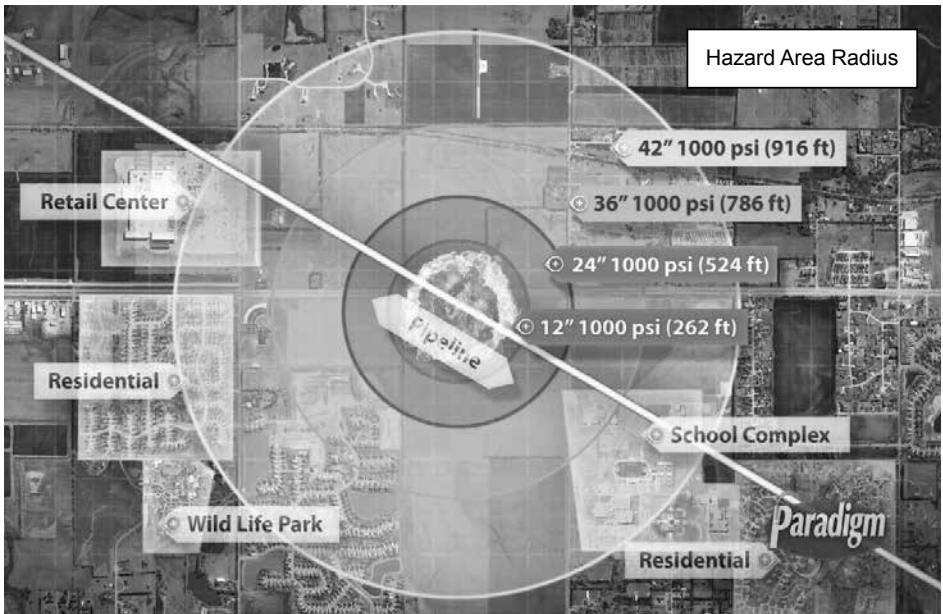
HAZARDOUS LIQUIDS

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

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

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

**Reference 49 CFR 195.402*



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

GOALS FOR INITIAL INTAKE:

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

FIRST RESPONSE CALL INTAKE CHECK LIST

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

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

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

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

Location:

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

Determine Exactly What Has Happened:

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

TABLE 1
Common Indications of a Pipeline Leak

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

Signs Of A Pipeline Release

SIGHT*

- Liquid on the ground
- Rainbow sheen on water
- Dead vegetation in an otherwise green area
- Dirt blowing into the air
- White vapor cloud
- Frozen area on ground

*Signs vary based upon product

SMELL

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

OTHER - NEAR PIPELINE OPERATIONS

- Burning eyes, nose or throat
- Nausea

SOUND

- A hissing or roaring sound

What To Do If A Leak Occurs

- Evacuate immediately upwind
- Eliminate ignition sources
- Advise others to stay away
- **CALL 911** and the pipeline company – number on warning marker
 - Call collect if necessary
- Make calls from safe distance – not “hot zone”
- Give details to pipeline operator:
 - Your name
 - Your phone number
 - Leak location
 - Product activity
 - Extent of damage
- DO NOT drive into leak or vapor cloud
- DO NOT make contact with liquid or vapor
- DO NOT operate pipeline valves (*unless directed by pipeline operator*):
 - Valve may be automatically shut by control center
 - Valve may have integrated shut-down device
 - Valve may be operated by qualified pipeline personnel only, unless specified otherwise
- Ignition sources may vary – a partial list includes:
 - Static electricity
 - Metal-to-metal contact
 - Pilot lights
 - Matches/smoking
 - Sparks from telephone
 - Electric switches
 - Electric motors
 - Overhead wires
 - Internal combustion engines
 - Garage door openers
 - Firearms
 - Photo equipment
 - Remote car alarms/door locks
 - High torque starters – diesel engines
 - Communication devices

Pipeline Emergency

Call Gas Control Or Pipeline Control Center

Use ***Pipeline Emergency Response Planning***

Information Manual for contact information

Phone number on warning markers

Use state One-Call System, if applicable

Control Center Needs To Know

Your name & title in your organization

Call back phone number – primary, alternate

Establish a meeting place

Be very specific on the location (***use GPS***)

Provide City, County and State

Injuries, Deaths, Or Property Damage

Have any known injuries occurred?

Have any known deaths occurred?

Has any severe property damage occurred?

Traffic & Crowd Control

Secure leak site for reasonable distance

Work with company to determine safety zone

No traffic allowed through any hot zone

Move sightseers and media away

Eliminate ignition sources

Fire

Is the leak area on fire?

Has anything else caught on fire besides the leak?

Evacuations

Primary responsibility of emergency agency

Consult with pipeline/gas company

Fire Management

Natural Gas – DO NOT put out until supply stopped

Liquid Petroleum – water is NOT recommended;

foam IS recommended

Use dry chemical, vaporizing liquids, carbon dioxide

Ignition Sources

Static electricity (*nylon windbreaker*)

Metal-to-metal contact

Pilot lights, matches & smoking, sparks from phone

Electric switches & motors

Overhead wires

Internal combustion engines

Garage door openers, car alarms & door locks

Firearms

Photo equipment

High torque starters – diesel engines

Communication devices – not intrinsically safe

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

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

What criteria define HCAs for pipelines?

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

HCAs for hazardous liquid pipelines:

- Populated areas include both high population areas (called “urbanized areas” by the U.S. Census Bureau) and other populated areas (areas referred to by the Census Bureau as a “designated place”).
- Drinking water sources include those supplied by surface water or wells and where a secondary source of water supply is not available. The land

area in which spilled hazardous liquid could affect the water supply is also treated as an HCA.

- Unusually sensitive ecological areas include locations where critically imperiled species can be found, areas where multiple examples of federally listed threatened and endangered species are found, and areas where migratory water birds concentrate.

HCAs for natural gas transmission pipelines:

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

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

Identified Sites*

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

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

Identified Site Registry

Pipeline operators need your help keeping people and property safe.

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

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

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

my.spatialobjects.com/admin/register/ISR

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



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

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

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

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



Pipelines In Our Community

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

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

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

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



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

Training Center

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

- Train as your schedule allows
- Download resources including pipeline operator specific information
 - Sponsoring pipeline operator contact information
 - Product(s) transported
- Submit Agency Capabilities Survey
- Receive Certificate of Completion

Visit <http://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:



Know what's below.
Call before you dig.

For More Details Visit: www.call811.com

American Public Works Association (APWA) Uniform Color Code

	WHITE - Proposed Excavation
	PINK - Temporary Survey Markings
	RED - Electric Power Lines, Cables, Conduit and Lighting Cables
	YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
	ORANGE - Communication, Alarm or Signal Lines, Cables or Conduit
	BLUE - Potable Water
	PURPLE - Reclaimed Water, Irrigation and Slurry Lines
	GREEN - Sewers and Drain Lines

OSHA General Duty Clause

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

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

Product Characteristics

PRODUCT	LEAK TYPE	VAPORS
HIGHLY VOLATILE LIQUIDS [SUCH AS: BUTANE, PROPANE, ETHANE, PROPYLENE, AND NATURAL GAS LIQUIDS (NGL)]	Gas	Initially heavier than air, spread along ground and may travel to source of ignition and flash back. Product is colorless, tasteless and odorless.
HEALTH HAZARDS	Will be easily ignited by heat, sparks or flames and will form explosive mixtures with air. Vapors may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire may produce irritating and/or toxic gases.	

PRODUCT	LEAK TYPE	VAPORS
NATURAL GAS	Gas	Lighter than air and will generally rise and dissipate. May gather in a confined space and travel to a source of ignition.
HEALTH HAZARDS	Will be easily ignited by heat, sparks or flames and will form explosive mixtures with air. Vapors may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high concentrations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.	

PRODUCT	LEAK TYPE	VAPORS
HAZARDOUS LIQUIDS [SUCH AS: CRUDE OIL, DIESEL FUEL, JET FUEL, GASOLINE, AND OTHER REFINED PRODUCTS]	Liquid	Initially heavier than air and spread along ground and collect in low or confined areas. Vapors may travel to source of ignition and flash back. Explosion hazards indoors, outdoors or in sewers.
HEALTH HAZARDS	Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution.	

EXCAVATOR RESPONSIBILITIES:

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

RISK CONSIDERATIONS

- ☐ Type/volume/pressure/location/geography of product
- ☐ Environmental factors – wind, fog, temperature, humidity
- ☐ Sight, sound, smell – indicators vary depending on product
- ☐ Black, dark brown or clear liquids/dirt blowing into air/peculiar odors/dead insects around gas line/dead vegetation
- ☐ Rainbow sheen on the water/mud or water bubbling up/frozen area on ground/frozen area around gas meter
- ☐ Other utility emergencies

PIPELINE MARKERS

The U.S. Department of Transportation (DOT) requires the use of signs to indicate the location of underground pipelines. Markers like these are located on road, railroad, and navigable waterway crossings. Markers are also posted along the pipeline right-of-way. Markers may not be located directly over the pipeline it marks.

The markers display:

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



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



Pipeline Damage Reporting Law As Of 2007

H.R. 2958 Emergency Alert Requirements

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

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

Websites:

Call Before You Clear

www.callbeforeyouclear.com

Association of Public-Safety Communications Officials - International (APCO)

www.apcointl.org/

Common Ground Alliance

www.commongroundalliance.com

Federal Emergency Management Agency

www.fema.gov

Federal Office of Pipeline Safety

www.phmsa.dot.gov

National One-Call Dialing Number: 811

www.call811.com

Government Emergency Telecommunications

www.dhs.gov/government-emergency-telecommunications-service-gets

Infrastructure Protection – NIPC

www.dhs.gov/national-infrastructure-protection-plan

National Emergency Number Association

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

National Fire Protection Association (NFPA)

www.nfpa.org

National Pipeline Mapping System

www.npms.phmsa.dot.gov

National Response Center

<https://www.epa.gov/emergency-response/national-response-center> or 800-424-8802

Paradigm Liaison Services, LLC

www.pdigm.com

United States Environmental Protection Agency (EPA)

www.epa.gov/cameo

Wireless Information System for Emergency Responders (WISER)

<https://wiser.nlm.nih.gov/>

FOR MORE INFORMATION ON THE NASFM PIPELINE EMERGENCIES PROGRAM

www.pipelineemergencies.com

FOR EMERGENCY RESPONSE INFORMATION, REFER TO DOT GUIDEBOOK.

FOR COPIES: (202) 366-4900

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



Register for access to
Training Center

Code: 2023CORE or 2024 COREX



Register for access
to the Emergency
Response Portal



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

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

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

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

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

Contact Paradigm for more information regarding custom public awareness solutions.

Contact us:

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



HSEEP
Homeland Security Exercise
and Evaluation Program

Operator Information

[illegible]



You Can Prevent Damages. We Can Help.

New Mexico One Call was established in 1990 to provide professional damage prevention resources for excavators and homeowners statewide. We offer a toll-free call center for dig notification and free safety seminars to train excavators on dig safety. Whether you're digging a few inches or several feet, the law requires you to call before you dig - it's free and it's the law!

Call 811 or visit our website at www.nm811.org to learn more.



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

NEW MEXICO

NM811 800-321-2537

Website: www.nm811.org

Hours: 7:00 AM - 5:00 PM, M-F / Emergencies & Damages: 24 hours
Advance Notice: 2 business days not counting day of call, weekends, or holidays

Marks Valid: 15 business days

Law Link: www.nm811.org/new-mexico-811-law/

* Mandatory

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



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