NORTHERN CALIFORNIA



Coordinated Response Exercise

PIPELINE SAFETY TRAINING FOR FIRST RESPONDERS



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



EMERGENCY CONTACT LIST

COMPANY

EMERGENCY NUMBER

Air Products, LLC	. 1-800-572-6521
Ameresco	
California Natural Resources Group (CalNRG)	1-888-664-4435
California Resources Corporation (Aera Resources)	. 1-805-648-8565
California Resources Corporation - Central Valley	1-661-763-6363
or	
California Resources Corporation - Elk Hills, LLC	. 1-661-763-6363
or	1-661-763-6911
Chevron Pipeline & Power	1-800-762-3404
Crimson Pipeline, LLC	1-866-351-7473
DCOR, LLC	1-888-225-1522
Freeport - McMoRan Oil & Gas	1-805-739-9111
Kern Energy	
Lodi Gas Storage, L.L.C.	
Los Angeles Department of Water & Power	1-310-522-1405
Martinez Pipeline Company	1-877-662-4575
Midstream Energy Partners (USA), LLC	1-866-295-2176
Mojave Pipeline Company, L.L.C.	1-800-334-8047
NuStar Energy L.P.	
Paramount Pipeline LLC	
Phillips 66 Pipeline LLC	1-877-267-2290
Plains Pipeline L.P.	1-800-708-5071
Sable Offshore Corp. (operating on behalf of Pacific Pipeline Company)	1-805-567-9543
Shell Pipeline Company LP	1-800-922-3459
SoCal Holding LLC	. 1-562-624-3452
THUMS	1-562-624-3452
Tidelands	1-562-624-3452
Torrance Logistics Company	1-877-662-4575
TransMontaigne Product Services Inc	
Valero Refining Company - California	. 1-707-745-7562
Valero - Ultramar Inc	
Vopak Terminal Los Angeles Inc	1-310-549-2221
World Oil Terminals	
Zenith Energy West Coast Terminals LLC	1-866-497-2284

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
Underground Service Alert of Southern California (DigAlert)	1-800-422-4133
USA North 811	1-800-642-2444
National One-Call Referral Number	1-888-258-0808
National One-Call Dialing Number	811

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Pipeline Purpose and Reliability

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

Safety Initiatives

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

Product Hazards and Characteristics

Petroleum (flow rate can be hundreds of thousands of gallons per hour)

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

Type 1 Products	Flash Point	Ignition Temperature
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

- · 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

Type 3 Products	Flash Point	Ignition Temperature
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

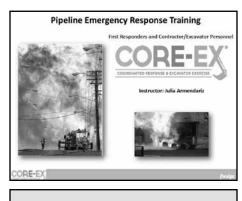
- · Always follow pipeline/gas company recommendations pipeline representatives may need escort to incident site
- · Advance preparation
 - · Get to know your pipeline operators/tour their facilities if possible
 - · Participate in their field exercises/request on-site training where available
 - Develop 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





What is 811?

It's FREE

National Call Before You Dig Phone Number Connects Notifies Excavators Utility with Regional Operators Notification about Center Excavation







What is Excavation? 4216(g)

...any operation in which earth, rock, or other material in the ground is moved, removed, or otherwise displaced by means of tools, equipment, or explosives in any of the following ways: grading, trenching, digging, ditching, drilling, augering, tunneling, scraping, cable or pipe plowing and driving, or any other way.



Required to be Members

4216.1 Every operator of a subsurface installation, except the Department of Transportation, shall become a member of, participate in, and share in the costs of, a regional notification center.



Responsible for: 4216.12(b)

 Coordinate education and outreach activities that encourage safe excavation practices

2. Develop standards

3. Investigate possible violations of this article

4. Enforce this article to the extent authorized by subdivision (e) of Section 4216.6



Why Use 811?

- Protects you and the community from dangers of damaged utilities
- Avoid expensive utility repairs, excavation downtime, and conserve resources
- · Required by law



Do we have to?

4216.2(b)

Except in an emergency, an excavator planning to conduct an excavation shall notify the appropriate regional notification center of the excavator's intent to excavate...

	The 8	311 Pro	ocess	
		<u>81</u>		
Step 1	Step 2	Step 3	Step 4	Step 5
Survey and Pre-mark	Contact 811	Wait the Required Time	Confirm Responses	Dig Safe and Respect Marks

Step 1 Survey and Pre-mark

4216.2(a)

Before notifying the appropriate regional notification center, an excavator planning to conduct an excavation shall delineate the area to be excavated.

Step 1 Survey and Pre-mark

If the area is not delineated, an operator may, at the operator's discretion, choose not to locate and field mark until the area to be excavated has been delineated.

Step 1 Survey and Pre-mark

Delineation Requirements

- Marked in white
- Encompass entire excavation area
- · Include Company Identifier
- Marked with Paint, Flags, Stakes, Whiskers or combination of these methods

Step 2 Contact 811

4216.2(a)

Except in an emergency, an excavator planning to conduct an excavation shall notify the appropriate regional notification center of the excavator's intent to excavate at least two working days, and *not more than 14 calendar days*, before beginning that excavation.

Step 2 Contact 811

4216(f)(1)

"Emergency" means a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services.

Step 2 Contact 811

Design Request



Created like a dig ticket, but instead of causing locators to come out and mark, it gives the future excavator the engineering department info for the members that are within the area of interest.

Step 2 Contact 811

3 Ways to Contact 811







3 actions per call Spanish speaking reps OneCallAccess

USA North – CA IOS & Android







Next Back

Confirm dig site

Baled on the dig site drawn in the r

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Maximum distance per ticket is ½ mile Ticket Continuity Committee (TCC) dictates ticket policy in Collifornia Ticket Continuity Committee (TCC) dictates ticket policy in Collifornia Maximum distance per ticket is ½ mile Ticket can be max distance of 2 miles under the following Conditions: a. Freeway with on or of framps. Alairoad track a. Waterway d. Power pole corridor or pipeline right of way in rural area

Step 3 Wait the Required Time

How will the operator respond?

4216.3(a)(1)(A)

1. Locate and field mark within the area delineated

2. Advise the excavator it operates no subsurface installations in the area delineated for excavation

3. Provide information to an excavator where the operator's active or inactive subsurface installations are located



Step 3 Wait the Required Time

Digging around high priority lines

4216(j)

means high-pressure natural gas pipelines with normal operating pressures greater than 415kPA gauge (60psig), petroleum pipelines, pressurized sewage pipelines, highvoltage electric supply lines, conductors, or cables that have a potential to ground of greater than or equal to 60kv, or hazardous materials pipelines that are potentially hazardous to workers or the public if damaged.

Step 3 Wait the Required Time

Digging around high priority lines

4216,2(c)

When the excavation is proposed within 10 feet of a high priority subsurface installation, the operator of the high priority subsurface installation shall notify the excavator of the existence of the high priority subsurface installation to set up an onsite meeting prior to the legal excavation start date and time or at a mutually agreed upon time.

Step 3 Wait the Required Time

Digging around high priority line

4216.2(c)

- Purpose of the meeting is to:
- · Discuss methods and tools of excavation
- Gather information from the operator to assist in verifying the location of the subsurface installation

Cannot begin digging until onsite meeting has taken place.

Step 4 Confirm Responses

4216.2(g)

Unless an emergency exists, an excavator shall not begin excavation until the excavator receives a response from all known operators of subsurface installations within the delineated boundaries of the proposed area of excavation

Checking the status of my ticket?

Electronic Positive Response (EPR) 4216.3(c)(1)(A)

every operator shall supply an electronic positive response through the regional notification center before the legal excavation start date and time.

Step 4 Confirm Responses

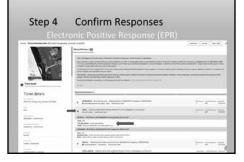
Still waiting? = No Response

The excavator shall notify the appropriate regional notification center of the failure of an operator to identify subsurface installations...

Step 4 Confirm Responses

Starting on Jan 1, 2025:

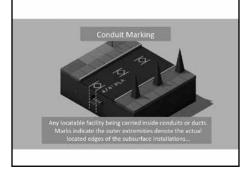
You can begin excavation before the legal start date, once you have confirmed the responses from all the operators on your ticket.

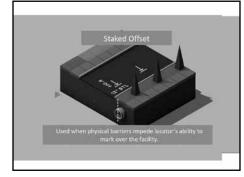


Step 5 Dig Safe and Respect Marks

Utility Markings must include:

- · The appropriate color for their facility type
- Their company name identifier when other companies are using the same color
- Total number of subsurface installations and the width of each facility
- · A description of the facility





Step 5 Dig Safe and Respect Marks Tolerance Zone 4216.4(a)(1)

...if an excavation is within the tolerance zone of a subsurface installation, the excavator shall determine the exact location of the subsurface installations in conflict with the excavation using hand tools...

Step 5 Dig Safe and Respect Marks Tolerance Zone

"Tolerance zone" means 24 inches on each side of the field marking placed by the operator...

Step 5 Dig Safe and Respect Marks Remarks

4216.3(b)

If the field marks are no longer reasonably visible, an excavator shall renotify the regional notification center with a request for remarks that can be for all or a portion of the excavation. Excavation shall cease in the area to be remarked.

Step 5 Dig Safe and Respect Marks

4216.3(b)

If the delineation markings are no longer reasonably visible, the excavator shall redelineate the area to be remarked.



Step 5 Dig Safe and Respect Marks

Damages

4216.4(c)(1)

An excavator discovering or causing damage to a subsurface installation, including all breaks, leaks, nicks, dents, gouges, grooves, or other damage to subsurface installation lines, conduits, coatings, or cathodic protection, shall immediately notify the subsurface installation operator.



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 markets 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



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Coordinated Response Exercise®

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

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

By attending this session today, you are preparing, along the pipeline companies, to create a coordinated effort in responding to pipeline incidents and accidents. These programs take place over 1,000 times in 46 states annual

ORE-EX

itary: Liberty County Emergency, Communications, Inc. may Olivert uncertail Pipeline Operator: I'm im kones with ABC Pipeline Company. I'm calling your divert number because cam in special operators in sur sickets order located in Houseon Tons. We are recorded to give you a "Notice of Potential Release" on one of are pipeline in your jarodictors. gency? If so, Linesd to Danshe you to an er in the area Hipeline Operator: the are uncore of the exact situation; see are vorking through the detuct with our local operations and need to ex-in communication with local responders in chacks unlock. The, please transfer me to the high distinguishes, thank you. Emergency Dispetcher: Liberty County 9-5-5 - What & www emergency/ Pipeline Operate: 119 Jun Jones with ABC Pipeline Company. Lan in special operations in our ICADA center lo required to contact you reparing a "Notico of Polonital Robust" on one of our gipelines in your jurisdiction. Emergency Disputchers: Ok. do you know the exact location of the potential release?

the Operator: We do not have a specific location at this to me - It could be in Liberty County mangaviery Diseatch: Stifted company are you with again?

Pipeline Operate: AIC Pipeline, our ICADA service is in throwton, bears that the potential miles of Userty County and 32 miles of Central County - In the jurisdiction next to you. W of communication if missions is needed.

Distriguncy Dispatcher: So, what emergency services do you need and is what incation?

pelline Operator: We are uncare at this time because we are required by PHMA to give you this ' read continention. We will use your PAR informer when information becomes available. We we co of potential release" boliz

Imergency Cispatish: Where a positive 2144, kouted?

Repetine Operator: We have 30 miles of pipeline in Unerty Courty. We have a diameter and has an MADP of 500 PDL group Disputs h: What we kens do you need us to take right new?

ne Operator: Engage your positive emergency response proceds subset, five got to provide notice of potential relevant to there ad

ORE-EX Central Dispatch Receives a call...





×

Table and / or Group Discussion



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

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New PHMSA Rule – Impact on PSAPs

For both natural gas and hazardous liquids pipelines

- itigation valves must be installed on all newly constructed and replaced ٠ Rupture m Bupture mitigation valves must be installed on all newly constructed and replaced pipelines of a diameter or gravest for onshore gas transmission, Type A gas gathering and basardous liquid openines This does not include natural gas distribution pipelines. Pipeline operators must contact 5-1:1 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 you record and pass that information on to your response agencies?
 Will this require your PAAP (and emergency enrices) to develop unitten policies?
 Where, potentially, could this call be coming from?
 Popeline could center locations
 Contacting a PAAP through the non-emergency number (no Automatic Namber destification (Au))
 Is this number monitored 24/72
 Plefeline operations were required to update their Emergency Response Plans (SRP) with this requirement in October 2022

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What is the intent of this new final rule?

- To require design and equipment elements and improved operational practices for quick and efficient identification of ruptures, that in turn will improve rupture installing times for certain gas to estimate and the state of the advised of the state of the gathering and the state of the transmission, gathering, and hazardoous injude pipelines.
- hazardous liquid pipelines. Ropture isolation time, as it in discussed in this final rule, o the time it takes an operator to identify a nuphure after notification of a potential nuphure, implement response procedures, and fully dose the appropriate valves to terminate the uncontrolled flow of commodity from the ruptured pipeline segment

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Potential "Best Practice" for Pipelines



National Emergency Number Association (NENA)



Pipeline emergency operations standard/model recommendations Access the full report through nena.org

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



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Pipeline Outreach to Stakeholders

- Mailings (More than 20 Million pieces annually)
- Over 1,000 Liaison Meetings with Emergency Officials, Public Officials, and Excavators
- Face-to-Face Meetings with Emergency Officials at their agencies
- Emergency Response Planning Portal (ERP)



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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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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





Program content and slides subject to change

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
- · Super visory 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
 - LeakSurveys
 - · May also be utilized on transmission pipe

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Other challenges impacting pipelines...

Natural Disasters

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

Human Error

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

National Security Threats

- Cyberterrorism involving pipeline systems IED's on pipeline assets

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Pipeline Operator / Responder Challenges

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



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Pipeline Company - Internal Responsibilities

- Regular pressure testing of the pipeline
- Smart pigging in a timely manner of the pipeline
- Personnel logistics Drive time and other factors .
- Personnel training Actual practice of closing a Pipeline Tool placement /
- positioning

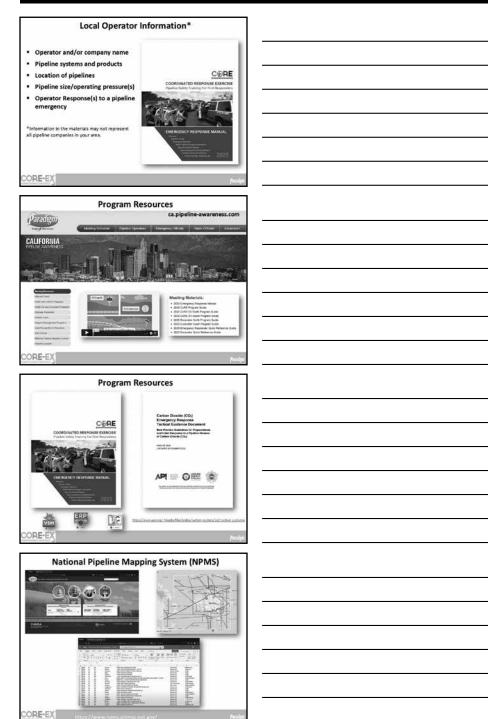
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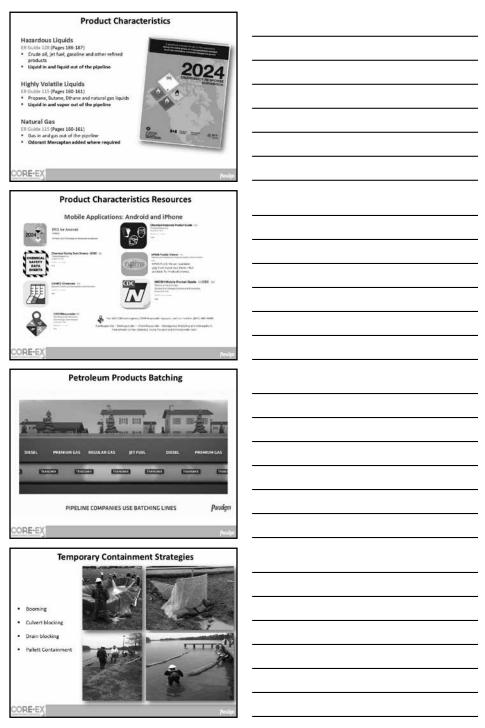
- Human reaction to working under stress
- Working with local Public officials and First Responders .











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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 Uquid Expanding Vapor Explosion (BLEVE)

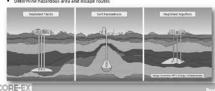


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Underground Storage Fields

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



Leak Recognition

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

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Local Distribution Systems

SIGHT

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 failing from roofs.

Excess flow valve meter tags

Ide ntification tags [192.381(c)]

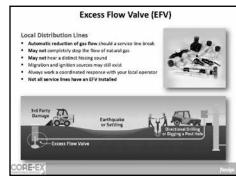
The presence of an excess flow valve on the service lines may or may not be marked with an identification tag. The identification tag (if present) will typically be located at the top of the service riser below the meter stop valve

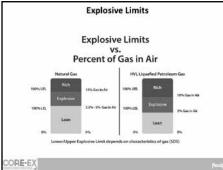
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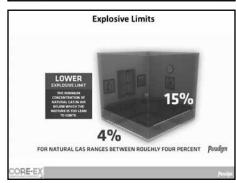


SOUND

SMELL





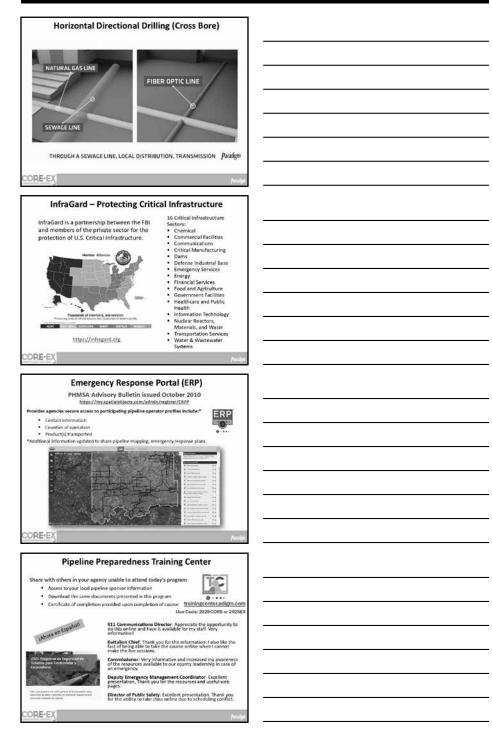


Farm Taps

- 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







Product INFORMATION



The Emergency Response Guidebook is available at: https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2024-04/ERG2024-Eng-Web-a.pdf







EMERGENCY RESPONSE PLANS FOR GAS AND HAZARDOUS LIQUID PIPELINE OPERATORS

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

Natural Gas

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

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

*Reference 49 CFR 192.615

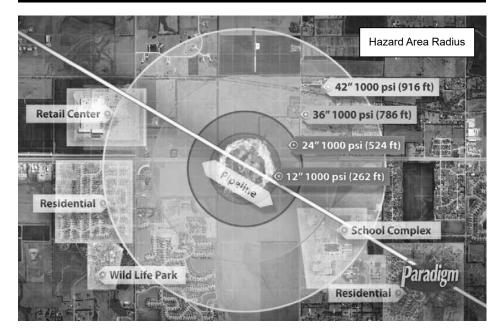
HAZARDOUS LIQUIDS

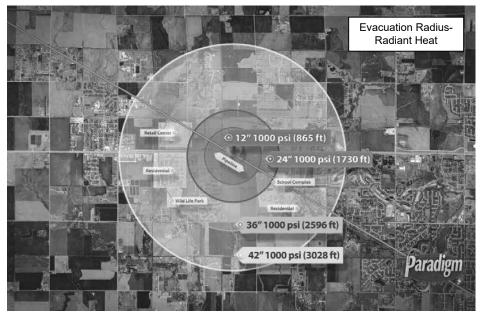
(a) General: Each operator shall prepare and follow for each pipeline system a manual of written procedures for conducting normal operations and maintenance activities and handling abnormal operations and emergencies. This manual shall be reviewed at intervals not exceeding 15 months, but at least once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

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

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

Emergency Response





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

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
- Methodically and Strategically Obtain Information through Systematic Inquiry to be Captured in the Agency's Intake Format
- 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.

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

TABLE 1 Common Indications of a Pipeline Leak

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

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

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

What criteria define HCAs for pipelines?

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

HCAs for hazardous liquid pipelines:

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

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

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

HCAs for natural gas transmission pipelines:

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

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

Identified Sites*

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

- (a) 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.
- (b) 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.
- (c) 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.



Common Ground Alliance Best Practices

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

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

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

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



Pipelines In Our Community

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

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

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



Know what's below.

Call before you dig.

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

Training Center

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

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



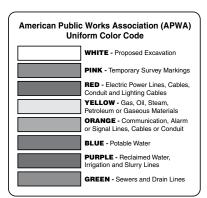
Call Before You Dig

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,	ETHANE, E, AND NATURAL	Gas	Initially heavier than air, spread along ground and may travel to source of ignition and flash back. Product is colorless, tasteless and odorless.
HEALTH 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 concer trations. 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		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. Vap may cause dizziness or asphyxiation without warning and may be toxic if inhaled at high cor trations. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.			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
HAZARDOUSLIQUIDS[SUCH AS: CRUDE OIL, DIESEL FUEL, JET FUEL, GASOLINE, I 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 igni- tion 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 contro 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

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



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-emergencytelecommunications-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/nationalresponse-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-responsequidebook-erg



Register for access to Training Center Code: CORE or EX





Register for access to the Emergency Response Portal



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











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)



UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA AND NEVADA

USA North 811 provides a free and effective Damage Prevention service that protects the communities and underground facilities in Central and Northern California, as well as the entire state of Nevada.

USA North 811 began operation in May of 1975 and incorporated as a Non-Profit Mutual Benefit Corporation in 1986. Our objective is to receive planned excavation reports from public or private excavators and to transmit those planned excavation reports to all participating members of USA North who may have facilities at that excavation site. Our members will:

1. Mark or stake the horizontal path of their facility, or

- 2. Provide information about the location of their facility, or
- 3. Advise the excavator of clearance for facilities that they own.

For more information visit our website at www.usanorth811.org.



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

Underground Service Alert of Southern California, aka DigAlert, is the Free Notification Center for anyone digging in the following nine Southern California counties – Inyo, Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, Santa Barbara and Ventura. For more information visit our website at www.digalert.org.

			TICKETS			STATE LAWS & PROVISIONS							NOTIFICATION EXEMPTIONS				NOTIFICATIONS ACCEPTED				5		
CALIFORNIA Underground Service Alert of Northern California and Nevada: 811 or 800-642-2444 Website: www.usanorth811.org Hours: Open 24 hours a day, seven days a week Advance Notice: 2 working days, not counting the date of notification, up to 14 calendar days Marks Valid: 28 days (1 ver for ACE tickets)	FAX	Online	Mobile	Statewide Coverage	Civil Penal	Emergency Clause	Mandatory Membership	Excavator Permits Issued	Mandatory Premarks	Positive Response	Hand Dig Clause	Damage Reporting	DOT	Homeowner	Railroad	Agriculture					Overhead	Large Projects	Tolerance Zone
Law Link: https://usanorth811.org/services/law-update *DOT exempt	N	Y	Y	N	Y	Y	Υ*	Y	Y	Y	Y	Y	N	Y	N	N	N	Y	N	Y	N	N	24
Underground Service Alert of Southern California: 811 or 800-422-4133 Website: www.digalert.org Hours: 6:00 AM - 7:00 PM, M-F Advance Notice: 2 working days, not counting the date of notification,																							
up to 14 calendar days Marks Valid: 28 days (1 year for ACE tickets) Law Link: https://www.digalert.org/calaw *DOT exempt	N	Y	Y	N	Y	Y	Y*	Y	Y	Y	Y	Y	N 507/20	Y	N	N	N	Y	N	Y	N	N	24





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