



MAGELLAN[®]
MIDSTREAM PARTNERS, L.P.

Moving what moves America

Pipeline Safety and Emergency Response Guide





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INCIDENT RESPONSE CHECKLIST

Pipeline operators will concentrate on shutting down pipeline facilities. Responders should focus on protecting the public and isolating or removing ignition sources.

ASSESS THE SITUATION

- Approach with caution from upwind/crosswind location**
 - Do not walk or drive into a vapor cloud or puddle of liquid
 - Use air-monitoring equipment
 - Note conditions of hazard, weather, surrounding community and available resources
 - Don't park over manhole or storm drain
- Secure the scene, deny entry to unauthorized persons**
- Employ NIMS and Incident Command System**
- Identify hazards**
 - Locate pipeline marker sign: product, operator, 24-hour emergency phone number
 - Contact pipeline operator: provide location, your name and phone number



Know what's below.
Call before you dig.

PROTECT PEOPLE, PROPERTY AND THE ENVIRONMENT

- Establish isolation zones and set up barricades**
- Evacuate people or shelter in place**
 - Refer to DOT *Emergency Response Guidebook*
 - Administer first aid
- Eliminate ignition sources**
- Control fire, vapor and/or leak**
 - Let primary fire burn
 - Cool surrounding structures
 - Beware of hot spot reignition

CALL FOR ASSISTANCE OF TRAINED PERSONNEL

- Contact your local emergency management organization**
- Call the pipeline operator**
 - **Call Magellan's 24-hour Emergency Number: 800-720-2417**
Provide the following information:
 - Exact location of the pipeline release
 - Name and phone number of the primary contact person

WORK TOGETHER WITH PIPELINE OPERATOR

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 a gas meter
- Other utility emergencies



LEAK IDENTIFICATION

How to Recognize a Pipeline Leak

Although pipeline leaks are rare, knowing how to recognize a possible leak is a key component in pipeline safety. Trust your senses. You may recognize a pipeline leak by:

- ▶ An odor similar to gasoline or diesel fuel
- ▶ Hissing, whistling or roaring sound
- ▶ Dense white cloud of fog
- ▶ Patch of dead or discolored vegetation along a pipeline
- ▶ A rainbow or sheen on water
- ▶ Dirt blowing in the air

Oily sheen on water



Water bubbling



Dead or discolored vegetation



NOT ALL SIGNS MUST BE PRESENT TO INDICATE A LEAK!

	Petroleum Liquids <i>(Crude Oil, gasoline, diesel fuel, jet fuel, aviation gasoline, kerosene and other refined products)</i>	HVLs <i>(Highly volatile liquids including natural gas liquids, such as propane, butane, ethylene and condensates)</i>
DO YOU SEE?		
Dead or discolored vegetation	X	X
Pooling of liquids on the ground	X	
Bubbling in pools of water		X
Sheen on surface of water	X	X
A white vapor cloud that may look like smoke		X
Dirt blowing from a hole in the ground		X
Fire coming out of or on top of the ground	X	X
An area of frozen ground in summer		X
An unusual area of melted snow in winter		X
DO YOU SMELL?		
An odor like petroleum liquids or gasoline	X	X
DO YOU HEAR?		
A hissing or whistling noise		X
A loud roaring sound like a jet engine		X

***Suspected leaks should be reported immediately to
Magellan's 24-hour Emergency Operations Control Number, 1-800-720-2417.***

IDENTIFYING PIPELINES

How to Identify a Pipeline in Your Area

The US Department of Transportation (DOT) requires the use of signs to indicate the approximate location, product carried and the name and contact information of the company that operates the pipeline. These markers are located at road, railroad and navigable waterway crossings. Markers are also posted along the pipeline right-of-way (ROW). For further information, please call 811 to reach your local state one-call center.

Pipeline Markers **DO NOT**

- Indicate exact pipeline location
- Designate a straight line between markers
- Specify depth of line

THE MARKERS DISPLAY:

The material transported in the pipeline

The name of the pipeline operator

A telephone number where the operator can be reached in the event of an emergency

PRODUCT HAZARDS AND CHARACTERISTICS

Petroleum

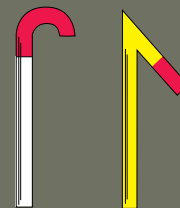
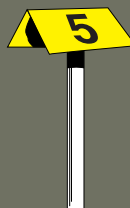
- Flammable range may be found anywhere within the hot zone
- H2S can be a by-product of crude oil

Propane and Butane

- 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 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

TYPE 3 PRODUCTS	FLASH POINT	IGNITION TEMPERATURE
Propane	-150 °F	920-1120 °F
Butane	-60 °F	725-850 °F



Markers located near roads, railroads, fences and along pipeline right-of-way

Marker for pipeline patrol plane

Pipeline casing vents

Test Station

Visit www.safeexcavator.com and download the Safe Excavator App for more extensive leak recognition and emergency response information.



TRAINING OPPORTUNITIES AND ADDITIONAL NOTIFICATIONS

Training

Magellan sponsors local emergency responder and public official liaison events in counties along our pipeline. You can find an event near you at www.pdigm.com/Liason_meetings_overview.html

Additional Emergency Responder training is also available and can be found by visiting Magellan's website. Below are the available trainings you will find.

NASFM TRAINING



For information about training available through the National Association of State Fire Marshals, please visit <https://nasfm-training.org/>

API/AOPL SHOULDER TO SHOULDER VIDEOS



The "Shoulder to Shoulder: Roles in Pipeline Emergency Response" video series features interviews with pipeline and emergency response experts. The series is an engaging way for emergency responders to learn more about how to safely and effectively respond to a pipeline emergency. The videos cover topics such as how pipelines work, how different products impact response, response leading practices, how to better prepare to respond to pipeline incidents and roles in pipeline response. A wide variety of emergency response disciplines are covered including fire, law enforcement, emergency management, 9-1-1 and emergency medical services.

Additional Notifications

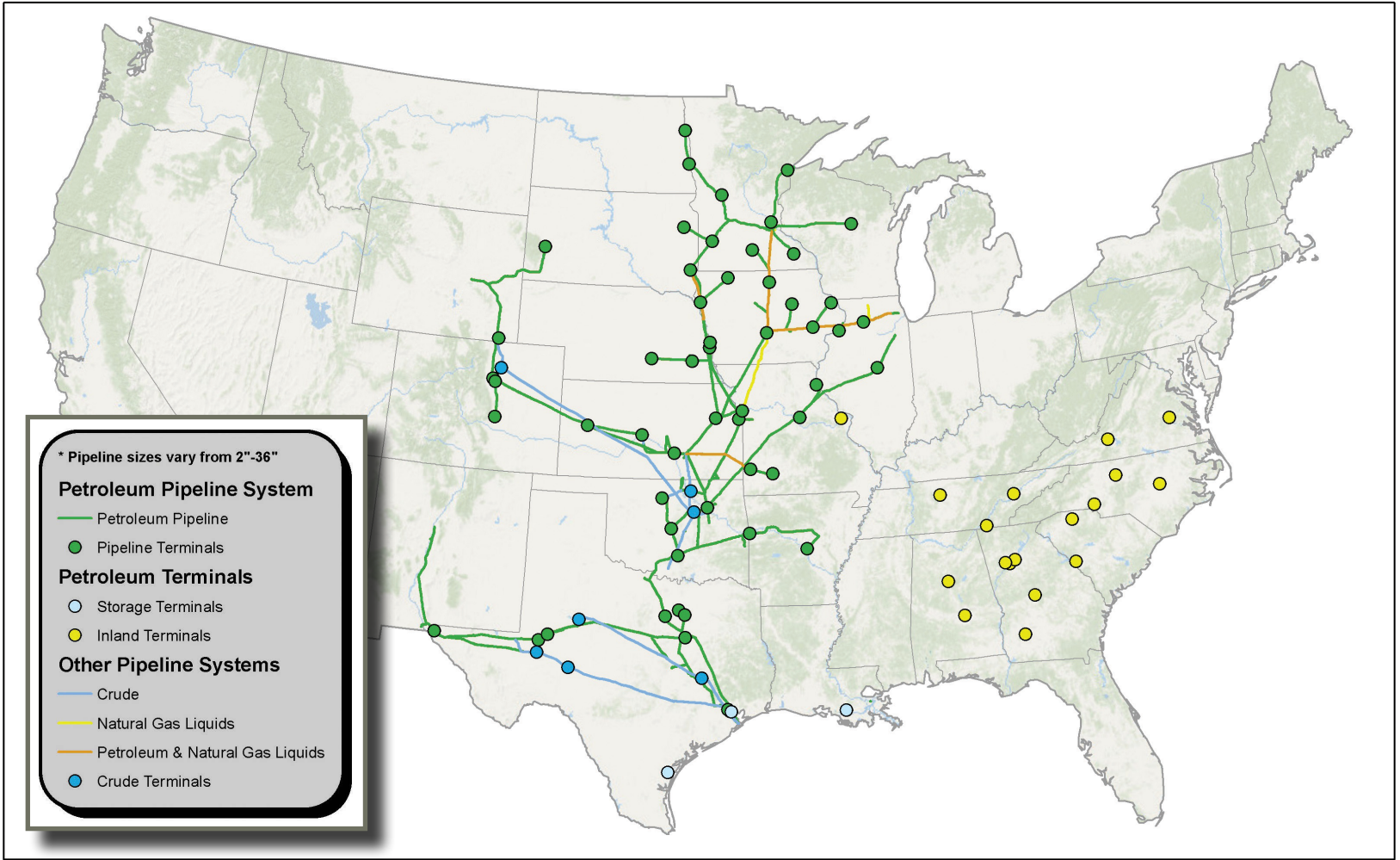
Valve Closures: If a pipeline is leaking, it is very likely that the pipeline system will need to be shut down (even if the leak is minor). Valve closures should only be performed by pipeline company personnel. Many pipeline companies have the ability to perform these actions remotely, thereby reducing the severity of the event and shortening the time it takes to stabilize the scene.

Contacting Appropriate Pipeline Company: Actions shall be taken to contact the appropriate pipeline company as soon as practical. If emergency contact information for the pipeline company is unknown, 9-1-1 personnel may call 8-1-1 to reach the local One Call Center and request emergency contact information for pipeline operators with facilities near the incident location.

Another way to obtain emergency contact information is to ask the responders to check for pipeline markers in the area. These markers normally contain; the company name, the product transported, and the emergency telephone number where the operator can be reached.

NENA 56-007, September 28, 2010.

MAGELLAN COVERAGE MAP



Pipeline Purpose and Reliability

According to the National Transportation Safety Board statistics, pipelines are the safest method of transporting petroleum. Transmission pipelines safely move approximately two-thirds of the nation's crude oil and refined products.

Magellan Midstream Partners moves the fuel that keeps America going. Magellan is the longest common carrier pipeline system for refined products and LPGs in the United States, extending approximately 9,800 miles from the Texas Gulf Coast and covering a 15-state area across the central U.S. The system includes 45 million barrels of aggregate usable storage capacity at 54 connected terminals. Our network on independent terminals includes 25 refined products terminals with 6 million barrels of storage located primarily in the southeastern U.S. and connected to third-party common carrier interstate pipelines.

Our facilities are part of a vast national network that reliably delivers products in a safe, clean and economical manner. Products transported through our pipelines are used to generate power, fuel cars, make plastics, grow crops, heat our homes and much more.

To obtain detailed maps of your area, contact us at:

888-945-2255; M-F 6am-6pm CST or **damageprevention@magellanlp.com**

ABOUT MAGELLAN

Magellan Midstream Partners, L.P. and its affiliates are committed to the safe, reliable delivery of natural gas liquids (NGL), liquefied petroleum gas (LPG), refined petroleum products and crude oil. Our pipelines are designed, installed, tested, operated and maintained according to strict standards employed by our company, the pipeline industry and the federal government. If a pipeline is damaged, it could leak or rupture. That's why it is important to be able to recognize the warning signs of a possible pipeline leak. In addition to preventative maintenance programs, we use cathodic protection systems, conduct in-line inspections as part of a comprehensive integrity management program on the pipeline, as well as use aerial surveillance to monitor activity near our pipeline right-of-way (ROW). Magellan has developed an assessment program known as System Integrity Plan (SIP). The SIP is implemented for areas designated as "high consequence areas" in accordance with federal regulations. Specific information about our program can be found by contacting us through our website, www.magellanlp.com.

SECURITY

Magellan focuses on operating pipelines in a safe, efficient and environmentally responsible manner. Working with you to accomplish this goal is important to us. Everyone can contribute to safety and security by knowing where pipelines are in their communities, how to recognize unauthorized activity or abnormal conditions that could be a leak and how to respond in the case of a pipeline accident. If you witness any acts of vandalism, loitering or other suspicious activity along the right-of-way or at a pipeline facility, please report it immediately to Magellan at 800-720-2417.



**Emergency Number:
800-720-2417**



HAZARDOUS MATERIAL QUICK GUIDE

PRODUCT	LEAK TYPE	VAPORS	HEALTH HAZARDS
Crude Oil	Liquid	Heavier than air	Possible presence of H ₂ S, a toxic gas
Gasoline, Diesel, Jet Fuel, Heating Oil, Transmix	Liquid	Heavier than air	Irritating to eyes and skin. Vapors at high concentration may cause central nervous system effects.
Propane, Butane	Liquid/Gas	Heavier than air	Respiratory tract irritant. May cause central nervous system effects.

*Special information for well water users: Be aware that a petroleum smell in your well water is an indication of potential contamination of your drinking water. While numerous sources may cause contamination, if you notice an unusual petroleum-like odor in your drinking water, please call us immediately at 800-720-2417.

Want to learn more about pipelines operating in your community?

Visit the National Pipeline Mapping System (NPMS) at www.npms.phmsa.dot.gov. This website provides a list of pipeline operators in your community as well as the location of pipelines and other valuable information. All information for Magellan Midstream Partners can be found under Magellan Pipeline Company, Magellan Crude Oil Pipeline, Magellan Ammonia Pipeline, Magellan Pipeline Holdings, Magellan Terminals Holdings or Magellan Operating Company.

MAGELLAN'S SYSTEM INTEGRITY PLAN

Magellan uses a comprehensive System Integrity Plan (SIP) which includes procedures, practices and processes to monitor our lines, and mitigate risks.

- **Computerized Control Centers** use remote telemetry equipment to monitor the operation of our pipelines 24 hours-per-day, seven days a week. These devices assist operators in quickly shutting down equipment and dispatching emergency crews during an urgent situation.
- **Smart Pigs** are sophisticated electronic pipeline inspection tools used to detect dings, scratches or corrosion in and on our pipelines.
- **Routine inspections** are conducted at our facilities and along our pipeline routes. Air patrols are regularly conducted to visually monitor the land surrounding the pipeline.
- **Emergency Plans** are maintained at our facilities. Our employees are regularly trained in emergency response and participate in drills with local and state emergency agencies.
- **Encroachment** Pipeline rights-of-way, or easements, are parcels of land above and around buried pipelines. To operate our pipelines safely, operators must be able to reach these parcels without interference from buildings, shrubs, trees or other encroachments. Communities should consider setbacks (the distance from the pipeline to another structure in the area), zoning ordinances or other measures to keep these areas clear. Careful land use decisions can reduce risks associated with pipelines. The Office of Pipeline Safety (www.phmsa.dot.gov) through the Pipeline and Informed Planning Alliance works with communities and pipeline companies to provide guidance for developing properties near pipelines.



Smart Pig,
photo courtesy of TDW



CALL BEFORE YOU DIG

To reduce the amount of damage caused by third parties, Magellan participates in One-Call programs which give utility owners the opportunity to mark their underground facilities in the area of excavation.

- 1 Call 811:** A free phone call to 811 will start the process to get underground facilities marked.
- 2 Wait:** Once a free phone call to 811 is made, wait the required amount of time for all underground utilities to mark the proposed work area.
- 3 Respect All Markings:** Make sure worksite is clearly outlined and do not dig where underground utilities are marked. To change the location of a project, start from step 1.
- 4 Dig With Care:** If there is a pipeline release, call 911. If a buried pipeline is struck, the owner of that utility should be contacted immediately. Unreported damage, including damage to pipeline coating or denting of the pipe, can lead to an accident days or even years later.



**Complete the form and leave it with Emergency Responder to retain the local information.*

10-FORM-1012

LOCAL CONTACTS:

Name: _____

Title: _____

Email: _____

Phone Numbers: _____

Alternate Contact: _____

Alternate Phone: _____

FACILITY: _____

Products:

- Crude Oil
- Jet Fuel
- Diesel Fuel
- Gasoline
- Propane
- Butane
- Ethanol
- Alkalyte
- Other: _____

Emergency Equipment:

- Hand-held Fire Extinguishers
- Foam cannons
- Foam supply
- Loading Rack Fire Suppression System
- Eye Wash
- Emergency Shower
- Other: _____

Facility Drawings Contain:

- Fire hydrants: number & location
- Evacuation routes
- Muster point
- Sketch of facility
- Strip Map

Volume of Largest Tank in barrels: _____

Diameter of Largest Tank: _____

Hours of manned operation: _____

MAINLINE: _____ **COUNTY:** _____

Products:

- Crude Oil
- Jet Fuel
- Diesel Fuel
- Gasoline
- Propane
- Butane
- Ethanol
- Alkalyte
- Other: _____

Drawings:

- Strip Map
- CD

Pipe diameter: _____

Operating Pressure: _____

Want to learn more about pipelines operating in your community? Visit the **National Pipeline Mapping System (NPMS): <https://www.npms.phmsa.dot.gov/>**. This website provides a list of pipeline operators in your community as well as the location of pipelines and other valuable information.

Emergency Number: 800-720-2417



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To obtain more information about our emergency response plans or asset integrity programs, please call 800-574-6671.

24-Hour Emergency Operations Control
800-720-2417

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