

2018 PIPELINE EMERGENCY QUICK REFERENCE GUIDE

Date:	Time:
Temperature:	Wind Direction:
Location	



Case Number:

EMERGENCY CONTACT LIST

Company Name	Emergency Number
Buckeye Partners, LP.....	1-800-331-4115
Cardinal Midstream III, LLC.....	1-800-218-8035
Chesapeake Energy.....	1-888-460-0003
CNX Midstream Partners.....	1-844-700-2663
CNX Resources Corporation.....	1-800-583-3755
Columbia Gas of PA/MD.....	1-888-460-4332
Delaware Pipeline Company.....	1-855-887-9768
Dominion Energy Transmission, Inc.....	1-888-264-8240
DTE Energy's Appalachia Gathering System.....	1-800-363-9541
DTE Energy's Bluestone Gathering.....	1-800-363-9541
Eastern Shore Natural Gas Company.....	1-877-650-1257
EMS Energy Solutions, LLC.....	1-866-497-2284
Energy Developments.....	1-866-532-9433
Energy Transfer.....	1-800-375-5702
Enterprise Products Operating, LLC.....	1-888-883-6308
EQT Midstream.....	1-855-740-1092
EQT Production Co.....	1-800-926-1759
Greylock Midstream, LLC / Greylock Production, LLC.....	1-800-323-1853
Hilcorp Energy Company/Harvest Pipeline Company.....	1-713-209-2400
IMG Midstream.....	1-877-260-1339
Interstate Energy Company.....	1-800-747-3375
KC Midstream Solutions, LLC.....	1-412-325-4350
Kiantone Pipeline Corp. / United Refining Company.....	1-814-723-1201
Magellan Midstream Partners, L.P.....	1-800-720-2417
Marathon Pipe Line LLC.....	1-800-537-6644
MarkWest Liberty Midstream & Resources, LLC.....	1-866-342-6914
MIPC, LLC.....	1-855-666-6763
Mountain Gathering, LLC / XTO Energy.....	1-877-829-8521
National Fuel Gas Midstream Corporation.....	1-800-526-2608
National Fuel Gas Supply Corporation.....	1-800-833-1843
Paulsboro Natural Gas Pipeline Co., LLC.....	1-877-662-4575
Peoples Natural Gas.....	1-800-400-4271
Rover Pipeline.....	1-800-225-3913
Shell Appalachia.....	1-877-320-7307
Stagecoach Gas Services LLC.....	1-866-234-7473
Stonehenge Appalachia, LLC.....	1-303-991-1480
Sunoco Pipeline L.P.....	1-800-786-7440
Tennessee Gas Pipeline Company, L.L.C.....	1-800-231-2800
Tennessee Gas Pipeline - Kinder Morgan.....	1-800-231-2800
Texas Eastern Transmission, LP / Enbridge.....	1-800-231-7794
or (Collect).....	1-724-428-3501
TransCanada / Columbia Gas Transmission.....	1-800-835-7191
TransCanada / Columbia Midstream Group.....	1-855-511-4942
UGI Energy Services.....	1-800-276-2722
UGI Utilities, Inc.....	1-800-276-2722
Williams.....	1-855-427-2875
or.....	1-800-688-6321

Note: The above numbers are for emergency situations. Additional pipeline operators/companies may exist in your area. Visit the National Pipeline Mapping System at www.npms.phmsa.dot.gov for transmission companies not listed above.

One-Call System	Phone Number
Pennsylvania One-Call System, Inc.....	1-800-242-1776 or 811

2018 PIPELINE EMERGENCY QUICK REFERENCE GUIDE - PENNSYLVANIA

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 representatives

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 HAZARDS AND CHARACTERISTICS

Petroleum (flow rate can be hundreds of thousands of gallons per hour) **TYPE 1**

- 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) **TYPE 2**

- Flammable range may be found anywhere within the hot zone between 4% and 15%
- 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 space between the pipe and soil
- Lower/Upper Explosive Limit depends on characteristics of gas (SDS)

Propane, Butane and Other Similar Products - **TYPE 3** (*e.g. Carbon Dioxide / Anhydrous Ammonia)

- 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
Anhydrous Ammonia	- 51 °F	1204-1560 °F

* Caustic - Can freeze/burn skin

* Expands Rapidly

* Liquid to a fog gas state!