

2018 PIPELINE EMERGENCY QUICK REFERENCE GUIDE - KANSAS PIPELINE ASSOCIATION

| | |
|--------------|-----------------|
| Date: | Time: |
| Temperature: | Wind Direction: |
| Location | |



| |
|--------------|
| Case Number: |
|--------------|

EMERGENCY CONTACT LIST

| COMPANY | EMERGENCY NUMBER | COMPANY | EMERGENCY NUMBER |
|--|------------------|--|------------------|
| AGC..... | 1-913-592-6100 | Kinder Morgan - Cheyenne Plains Gas Pipeline Company, LLC ... | 1-877-712-2288 |
| Atmos Energy..... | 1-866-322-8667 | Kinder Morgan - Colorado Interstate Gas Company, L.L.C | 1-877-712-2288 |
| Badger Midstream Energy, LP..... | 1-866-202-3298 | Kinder Morgan - Natural Gas Pipeline Co. of America | 1-800-733-2490 |
| Black Hills Energy | 1-800-694-8989 | KPC Pipeline, LLC..... | 1-800-467-2751 |
| BP Pipelines (North America) Inc. | 1-800-548-6482 | Linn Operating, LLC | 1-866-645-3511 |
| CHS McPherson Refinery Inc. Pipeline | 1-844-721-6611 | Magellan Midstream Partners, LP..... | 1-800-720-2417 |
| City of Chanute..... | 1-620-431-5270 | Merit Energy Company..... | 1-800-735-1212 |
| City of Lyons..... | 1-800-694-8989 | Midwest Energy, Inc. | 1-800-222-3121 |
| Coffeyville Resources Crude Transportation, LLC | 1-800-982-4112 | Northern Natural Gas Company..... | 1-888-367-6671 |
| DCP Midstream | 1-888-204-1781 | NuStar Pipeline Operating Partnership L.P. | 1-800-759-0033 |
| DCP Midstream - DCP Wattenberg Pipeline LLC..... | 1-800-435-1679 | ONEOK Partners - Mid-Continent Market Center, L.L.C. | 1-888-675-3302 |
| Enable Gas Transmission, LLC | 1-800-474-1954 | ONEOK Partners - ONEOK Field Services Company, L.L.C. | 1-888-675-3302 |
| Enbridge Energy Partners, L.P. | 1-800-858-5253 | ONEOK Partners - ONEOK NGL Pipeline, L.L.C. | 1-800-666-9041 |
| Energy Transfer Gas | 1-877-404-2730 | ONEOK Partners - ONEOK North System, L.L.C. | 1-888-844-5658 |
| Enterprise Products Operating LLC..... | 1-888-883-6308 | Panhandle Eastern Pipe Line Company | 1-800-225-3913 |
| Evonik..... | 1-316-522-8181 | PetroSantander (USA) Inc. | 1-620-275-9055 |
| Flint Hills Area Natural Gas Operators (City of Alma)..... | 1-785-765-3323 | Plains All American Pipeline, L.P. | 1-800-708-5071 |
| Flint Hills Area Natural Gas Operators (City of Auburn) | 1-785-357-8095 | Platte Pipe Line Company | 1-888-449-7539 |
| Flint Hills Area Natural Gas Operators (City of Burlingame)..... | 1-785-654-3431 | REP Kansas Gathering, LLC..... | 1-877-282-1717 |
| Flint Hills Area Natural Gas Operators (City of Eskridge)..... | 1-785-765-3323 | Rose Rock Midstream, L.P. | 1-800-522-3883 |
| Flint Hills Area Natural Gas Operators (City of Harveyville) | 1-785-765-3323 | Sinclair Transportation Company | 1-800-321-3994 |
| Flint Hills Area Natural Gas Operators (City of Havensville) | 1-785-456-5427 | Tallgrass Energy - Pony Express Pipeline | 1-855-220-1762 |
| Flint Hills Area Natural Gas Operators (City of McFarland)..... | 1-785-456-4056 | Tallgrass Energy - Rockies Express Pipeline | 1-877-436-2253 |
| Flint Hills Area Natural Gas Operators (City of Osage City)..... | 1-785-528-3714 | Tallgrass Energy - Tallgrass Interstate Gas Transmission | 1-888-763-3690 |
| Flint Hills Area Natural Gas Operators (City of Reading) | 1-620-794-2556 | Texas Kansas Oklahoma Gas, LLC | 1-806-244-4210 |
| Holly Energy Partners - Operating L.P. | 1-877-748-4464 | TransCanada ANR Pipeline | 1-800-447-8066 |
| Jayhawk Pipeline, L.L.C. | 1-888-542-9575 | TransCanada Keystone Pipeline | 1-800-447-8066 |
| Kansas City Power & Light..... | 1-816-654-1499 | White Cliffs Pipeline, L.P. | 1-800-522-3883 |
| Kansas Gas Service | 1-888-482-4950 | Williams Mid Continent Fractionation and Storage | 1-620-834-2138 |
| Kaw Pipe Line Company | 1-888-542-9575 | Williams - Overland Pass Pipeline | 1-800-635-7400 |

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.

| COMPANY | PHONE NUMBER |
|---|----------------|
| Kansas One-Call Center..... | 811 |
| Kansas Corporation Commission Abandoned Wells (Primary) | 1-316-337-6035 |
| Kansas Corporation Commission Abandoned Wells (After Hours) | 1-316-722-8955 |

2018 PIPELINE EMERGENCY QUICK REFERENCE GUIDE - KANSAS PIPELINE ASSOCIATION

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!