PIPELINE
Community Awareness
Emergency Response
MNCAER

CORE®
COORDINATED RESPONSE EXERCISE

COORDINATED RESPONSE EXERCISE®

Pipeline Safety Training For First Responders

EMERGENCY RESPONSE MANUAL

Overview
Operator Profiles
Emergency Response
NENA Pipeline Emergency Operations
Signs of a Pipeline Release
High Consequence Area Identification
Pipeline Industry ER Initiatives
Pipeline Damage Reporting Law

2024

EMERGENCY CONTACT LIST

COMPANY	EMERGENCY NUMBER
Alliance Pipeline (A Joint Venture of Enbridge and Pembina)	**1-800-884-8811**
Austin Utilities	**1-507-433-8886**
Centennial Utilities	**1-763-427-1212**
CenterPoint Energy	**1-713-207-8888**
Cities of Fairfax-Gibbon (24 hr)	**1-507-221-7255**
Cities of Fairfax-Gibbon (Office)	**1-507-426-7255**
City of Brownton Municipal Natural Gas / Operated by Hutchinson Utilities	**1-877-593-3973**
or	**1-320-587-4745**
City of Duluth Public Works and Utilities Dept.	**1-218-730-4100**
City of Hallock	**1-218-843-2737**
or	**1-218-843-2559**
City of Stephen	**1-218-478-3614**
or	**1-218-478-3803**
City of Tyler	**1-507-247-5176**
Dooley's Natural Gas	**1-320-235-2466**
Enbridge Energy Company, Inc. / North Dakota Pipeline Company LLC	**1-800-858-5253**
Enterprise Products Operating LLC	**1-888-883-6308**
Flint Hills Resources	**1-800-688-7594**
Great Plains Natural Gas Company	**1-877-267-4764**
Greater Minnesota Gas, Inc. / Greater Minnesota Transmission, LLC	**1-888-931-3411**
Heartland Corn Products	**1-507-647-5000**
Hibbing Public Utilities	**1-218-262-7700**
Hutchinson Utilities Commission	**1-877-593-3973**
Lake Region Energy Services	**1-888-295-8976**
Lakes Community Cooperative	**1-888-935-2281**
Magellan Midstream Partners, L.P.	**1-800-720-2417**
Minnesota Office of Pipeline Safety (Duty Officer Statewide)	**1-800-422-0798**
Minnesota Office of Pipeline Safety (Duty Officer Metro)	**1-651-649-5451**
Minnesota Office of Pipeline Safety (MN Office of Pipeline Safety)	**1-651-201-7230**
New Ulm Public Utilities Commission	**1-877-868-3636**
or	**1-507-359-8264**
Northern Natural Gas Company	**1-888-367-6671**
Northwest Gas (North)	**1-800-620-1748**
Northwest Gas (South)	**1-800-367-6964**
NuStar Pipeline Operating Partnership L.P.	**1-800-759-0033**
Onward Energy (Primary)	**1-507-299-2301**
Onward Energy (Secondary)	**1-507-385-7816**
Owatonna Public Utilities	**1-507-451-1616**
Paul Bunyan Natural Gas, LLC	**1-888-501-7845**
Pembina Cochin LLC	**1-800-360-4706**
Petroleum Fuels Company	**1-800-275-6549**
Sheehan's Gas Company	**1-800-243-3047**
Suburban Propane	**1-800-776-7263**
United Natural Gas	**1-888-832-5734**
or	**1-507-647-6602**
Virginia Public Utilities	**1-218-748-7540**
WBI Energy Transmission	**1-888-859-7291**
Xcel Energy (Gas)	**1-800-895-2999**
Xcel Energy (Electric)	**1-800-895-1999**

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
Gopher State One-Call Center	**1-800-252-1166**
National One-Call Referral Number	**1-888-258-0808**
National One-Call Dialing Number	**811**

Table of Contents

To: ALL EMERGENCY OFFICIALS

From: Paradigm Liaison Services, LLC

Re: Pipeline Emergency Response Planning Information

This material is provided to your department as a reference to pipelines that operate in your state in case you are called upon to respond to a pipeline emergency.

For more information on these pipeline companies, please contact each company directly. You will find contact information for each company represented throughout the material.

This information only represents the pipeline and/or gas companies who work with our organization to provide training and communication to Emergency Response agencies such as yours. There may be additional pipeline operators in your area that are not represented in this document.

For information and mapping on other Transmission Pipeline Operators please visit the National Pipeline Mapping System (NPMS) at:
https://www.npms.phmsa.dot.gov.

For information on other Gas and Utility Operators please contact your appropriate state commission office.

Further product-specific information may be found in the US Department of Transportation (DOT) *Emergency Response Guidebook for First Responders*.

The Guidebook is available at:
https://www.phmsa.dot.gov/sites/phmsa.dot.gov/files/2020-08/ERG2020-WEB.pdf

About Us

WELCOME TO MINNESOTA PIPELINE CAER

Virtually all aspects of the energy transportation pipeline industry are regulated to some extent by federal, state and local agencies. The Minnesota Pipeline CAER Association was formed to assist distribution and transmission pipeline companies to stay informed about current and future regulations as well as working together to promote pipeline safety. Please check “Our Members” for a list of participating Minnesota pipeline operators.

OUR MISSION

Minnesota Pipeline CAER serves to collectively provide pipeline safety information to Minnesota emergency officials, including local fire, law enforcement and others through the enhanced awareness of pipeline emergencies, member resources available to respond to a pipeline emergency and a sharing of emergency response capabilities. In addition, CAER pipeline and distribution operators and members jointly support efforts to increase awareness of pipeline damage prevention to excavators and public officials.

OUR OBJECTIVES

- Develop a customized presentation and materials for emergency officials that provide appropriate information pertaining to the pipeline companies operating in their area.
- Jointly sponsor informational meetings for fire, police, and other emergency and public officials such that the resources of all involved parties, including the attending emergency officials, are used in the most effective manner possible.
- Achieve compliance with applicable federal and state regulations by ensuring the information and materials presented provide the necessary reference materials.
- Integrate informational meetings with other scheduled emergency official events such as state regional or annual meetings of fire, law enforcement and other emergency personnel, when or where feasible.
- Establish performance measures to evaluate the effectiveness of the association’s efforts, target areas for improvement, and identify modifications that will further the objectives.

Contact us:

Minnesota Pipeline CAER Association

Phone: (877) 966-2237
Fax: (888) 417-0818

PIPELINE
Community Awareness
Emergency Response
MNCAER

Pipeline Mileage Overview*

Pipeline Type	Minnesota	Nationwide
Hazardous Liquid	4,957	215,622
Gas Transmission	5,465	300,651
Gas Distribution Main	32,874	1,295,945
Gas Distribution Service	25,667	927,065
Total Mileage	**68,359**	**2,739,283**

*Pipeline and Hazardous Materials Safety Administration (PHMSA)

Pipeline Emergency Response

PLANNING INFORMATION

ON BEHALF OF:

Alliance Pipeline
Austin Utilities
Centennial Utilities
CenterPoint Energy
Cities of Fairfax-Gibbon
City of Brownton Municipal Natural Gas
City of Duluth
City of Hallock
City of Stephen
City of Tyler
Dooley's Natural Gas
Enbridge Energy Company, Inc.
Enterprise Products Operating LLC
Flint Hills Resources
Great Plains Natural Gas Company
Greater Minnesota Gas, Inc.
Greater Minnesota Transmission, LLC
Heartland Corn Products
Hibbing Public Utilities
Hutchinson Utilities Commission
Lake Region Energy Services
Lakes Community Cooperative
Magellan Midstream Partners, L.P.
Minnesota Office of Pipeline Safety
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North Dakota Pipeline Company LLC
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Northwest Gas
NuStar Pipeline Operating Partnership L.P.
Onward Energy
Owatonna Public Utilities
Paul Bunyan Natural Gas, LLC
Pembina Cochin LLC
Petroleum Fuels Company
Sheehan's Gas Company
Suburban Propane
United Natural Gas
Virginia Public Utilities
WBI Energy Transmission
Xcel Energy

Note: The enclosed information to assist in emergency response planning is delivered by Paradigm Liaison Services, LLC on behalf of the above sponsoring companies. Visit the National Pipeline Mapping System at **https://www.npms.phmsa.dot.gov** to determine additional companies operating in your area.

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
  - 0.02 PPM — Odor threshold
  - 10.0 PPM — Eye irritation
  - 100 PPM — Headache, dizziness, coughing, vomiting
  - 200-300 PPM — Respiratory inflammation within 1 hour of exposure
  - 500-700 PPM — Loss of consciousness/possible death in 30-60 min.
  - 700-900 PPM — Rapid loss of consciousness; death possible
  - Over 1000 PPM — Unconsciousness in seconds; death in minutes
- Incomplete combustion of natural gas may release carbon monoxide
- Storage facilities may be present around populated areas/can be depleted production facilities or underground caverns
- Gas travel may be outside the containment vessel along the natural cavern between the pipe and soil

Propane, Butane and Other Similar Products

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

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

Pipeline Emergency Response Training

First Responders and Emergency Personnel

CORE

COORDINATED RESPONSE EXERCISE

Instructor:

2023 Regional Attendance Winners

- Region 1 – Eyota Volunteer Fire Department
- Region 2 – Mission Township Fire Department
- Region 3 – Kittson County EMA
- Region 4 – Litchfield Rescue Squad
- Region 5 – Saint James Volunteer Fire Department
- Region 6 – Anoka County EMA

Continuing Education Unit (CEU) Opportunities

Paradigm Liaison Services is a continuing education sponsor as approved by the Board of Peace Officer Standards and Training. This course, Coordinated Response Exercise (CoRE) First Responder Training, course number 10263-0005, has been approved by the POST Board for continuing education credit. Peace officers who successfully complete this course will receive 2 hours of continuing education.

The sponsor of this course has a written policy for the investigation and resolution of allegations of classroom discrimination. This policy applies to all faculty, instructors, administrative staff, and students. A copy of the policy may be obtained from the sponsor by contacting Randy Duncan by email at randalld@pdigm.com or phone at 316-554-9225.

POST Course Number: 10263-0005

MNCAER Members

Local Operator Information*

- Operator and/or company name
- Pipeline systems and products
- Location of pipelines
- Pipeline size/operating pressure(s)
- Operator Response(s) to a pipeline emergency

*Information in the materials may not represent all pipeline companies in your area.

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 pipeline emergency.
- **Identify** the types of pipeline emergencies.
- **Plan** how all parties can engage in mutual assistance to minimize hazards to life, property and the environment.

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

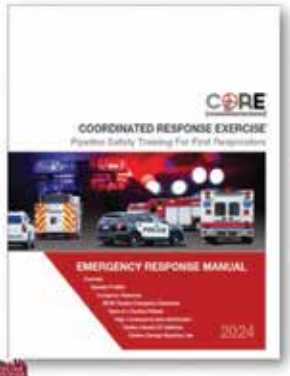
Roll Call: Law Enforcement, Fire, EMS, Emergency Management, Division of Forest Service, State & Federal Officials, School Officials, PSAP & Pipeline Operators

Program Resources

mncaer.com

Meeting Materials
- 2024 Emergency Response Manual
- 2024 Quick Reference Guide

Program Resources



VSM

ERP

TC

Integrity Management

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

- Internal and external cleaning and inspection, of the pipeline and affected areas
  - Rights-of-Way and valves
- Supervisory Control and Data Acquisition (SCADA)
- Identification of High Consequence Areas (HCA)
- Aerial Rights-of-Way Patrols
- Public Awareness Outreach to stakeholders
- Participation as a member of 811
- Operator Qualification (OQ) Training
- Local Distribution Company (LDC)
  - Meter Testing
  - Leak Surveys
  - May also be utilized on transmission pipelines

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

Coordinated Response Exercise®

Discussion Based Exercise

Natural Disasters

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

Human Error

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

National Security Threats

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

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

Virtual Scenario Manager (VSM™) Map

Coordinated Response Exercise Discussion

Discussion Questions

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

Coordinated Response Exercise Discussion

Discussion Questions

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

Discussion-Based Exercise Recap

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

National Emergency Number Association

Pipeline Emergency Operations Standard

NENA's pipeline emergency operations workgroup recommendations
- Awareness of pipelines affecting the 911 service area
- Pipeline leak recognition and initial response actions
- Additional notices to pipeline operators

Initial intake checklist
- Quick reference guide in program materials

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

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

New PHMSA Rule – Impact on PSAPs

For both natural gas and hazardous liquids pipelines

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

How does this rule potentially affect PSAPs

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

National Pipeline Mapping System (NPMS)

Product Characteristics

Hazardous Liquids

ER Guide 128 (Pages 192-193)*

- Crude oil, jet fuel, gasoline and other refined products
- **Liquid in and liquid out of the pipeline**

Highly Volatile Liquids

ER Guide 115 (Pages 166-167)*

- Propane, Butane, Ethane and natural gas liquids
- **Liquid in and vapor out of the pipeline**

Natural Gas

ER Guide 115 (Pages 166-167)*

- Gas in and gas out of the pipeline
- **Odorant Mercaptan added where required**

*These ER Guide and page numbers are from the 2020 edition of the Emergency Response Guidebook

Product Characteristics Resources

Mobile Applications: Android and iPhone

Anhydrous Ammonia (NH_3)

ER Guide 125 (Pages 186-187)

Potential Hazards

- Toxic; may be fatal if inhaled, ingested or absorbed through skin
- Cloud may not be visible
- Vapors are initially heavier than air and spread along ground
- Wear full protective clothing/SCBA

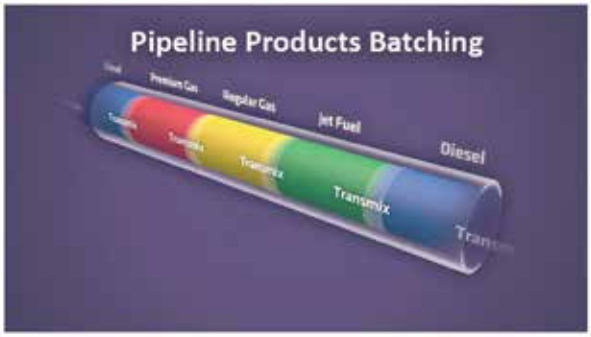
Health Hazards

- Vapors may cause dizziness or suffocation
- Vapors are extremely irritating and corrosive
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite
- Fire will produce irritating, corrosive and/or toxic gases
- (LEL) 15% to (UEL) 28% (NIOSH Pocket Guide to Chemicals)

Public Safety

- Immediate precautionary measure, isolated spill or leak area at least 330 ft all directions
- Keep unauthorized personnel away
- Stay upwind and/or upstream
- Vapors are lighter than air

Petroleum Products Batching



Emergency Response and 811

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

PHMSA Advisory Bulletin (2012-08)

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

811

Above Ground Storage Tanks

Considerations when responding to tank farms/ terminals

Work with your local operator to:

- Develop an effective response plan
- Identify products and hazards
- Determine evacuation radius

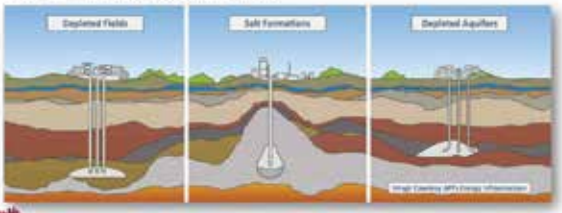
Response recommendations:

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

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



Local Distribution Systems

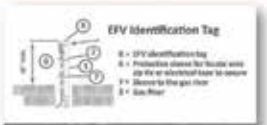
Caution

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

Excess flow valve meter tags

Identification tags [192.381(c)]

- The presence of an excess flow valve on the service lines must be marked with an identification tag. The identification tag will typically be located at the top of the service riser below the meter stop valve



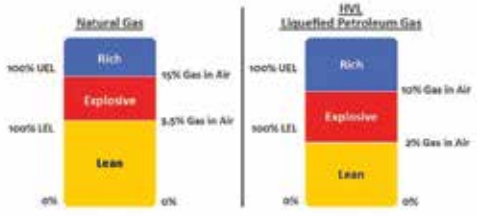
Excess Flow Valve (EFV)

Local Distribution Lines

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

Explosive Limits

Explosive Limits vs. Percent of Gas in Air



Lower / Upper explosive limits depend on characteristics of specific product.

Farm Taps

- Mainly in rural areas, some natural gas pipeline companies may have facilities commonly referred to as "farm tap"
- These natural gas settings are made up of valves, pipes, regulators, relief valves and a meter. It may be located near the home or within the general vicinity
- To report the smell of gas near a farm tap, call 911 and the local gas distribution company from a safe distance
- The lines after a farm tap or residential meter are PRIVATE LINES. Be aware of these.

InfraGard – Protecting Critical Infrastructure

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

https://infragard.org

16 Critical Infrastructure Sectors:

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

Emergency Response Portal (ERP)

PHMSA Advisory Bulletin issued October 2010

https://my.spatialobjects.com/admin/register/ERPP

Provides agencies secure access to participating pipeline operator profiles include:*

- Contact information
- Counties of operation
- Product[s] transported

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

Pipeline Preparedness Training Center

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

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

trainingcenter.odigm.com

Use Code: 2024CORE

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

Battalion Chief: Thank you for the information. I also like the fact of being able to take the course online when I cannot make the live sessions.

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

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

Director of Public Safety: Excellent presentation. Thank you for the ability to take class online due to scheduling conflict.

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

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

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- **HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.**
- Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a **"P"** may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- Many liquids are lighter than water.
- Substance may be transported hot.
- **If molten aluminum is involved, refer to GUIDE 169.**

HEALTH

- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- **CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available appropriate telephone numbers can be found in the Emergency Response Guidebook.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

- Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

Small Fire

- Dry chemical, CO_2, water spray or regular foam.

Large Fire

- Water spray, fog or regular foam.

PRODUCT: Crude Oil	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1267	128
PRODUCT: Diesel Fuel	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1202	128
PRODUCT: Jet Fuel	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1863	128
PRODUCT: Gasoline	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1203	128

Refer to the Emergency Response Guidebook for additional products not listed.

- Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

FIRST AID

- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- **EXTREMELY FLAMMABLE..**
- Will be easily ignited by heat, sparks or flames.
- Will form explosive mixtures with air.
- Vapors from liquefied gas are initially heavier than air and spread along ground. **CAUTION: Hydrogen (UN1049), Deuterium (UN1957), Hydrogen, refrigerated liquid (UN1966) and Methane (UN1971) are lighter than air and will rise. Hydrogen and Deuterium fires are difficult to detect since they burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)**
- Vapors may travel to source of ignition and flash back.
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
- Containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- Vapors may cause dizziness or asphyxiation without warning.
- Some may be irritating if inhaled at high concentrations.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating and/or toxic gases.

PUBLIC SAFETY

- **CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available appropriate telephone numbers can be found in the Emergency Response Guidebook.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Large Spill

- Consider initial downwind evacuation for at least 800 meters (1/2 mile).

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

EMERGENCY RESPONSE

FIRE

- **DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. CAUTION: Hydrogen (UN1049), Deuterium (UN1957) and Hydrogen, refrigerated liquid (UN1966) burn with an invisible flame. Hydrogen and Methane mixture, compressed (UN2034) may burn with an invisible flame.**

Small Fire

- Dry chemical or CO2.

PRODUCT: Propane	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1075	115
PRODUCT: Butane	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1075	115
PRODUCT: Ethane	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1035	115
PRODUCT: Propylene	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1075/1077	115
PRODUCT: Natural Gas Liquids	
DOT GUIDEBOOK ID #:	**GUIDE #:**
1972	115

Refer to the Emergency Response Guidebook for additional products not listed.

Large Fire

- Water spray or fog.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- Prevent spreading of vapors through sewers, ventilation systems and confined areas.
- Isolate area until gas has dispersed. **CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.**

FIRST AID

- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Clothing frozen to the skin should be thawed before being removed.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

POTENTIAL HAZARDS

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EVACUATION

Large Spill

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- If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

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- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

DOT GUIDEBOOK ID #: 1971

GUIDE #: 115

CHEMICAL NAMES:

- Natural Gas
- Methane
- Marsh Gas
- Well Head Gas
- Fuel Gas
- Lease Gas
- Sour Gas*

CHEMICAL FAMILY:

Petroleum Hydrocarbon Mix: Aliphatic Hydrocarbons (Alkanes), Aromatic Hydrocarbons, Inorganic Compounds

COMPONENTS:

Methane, Iso-Hexane, Ethane, Heptanes, Propane, Hydrogen Sulfide*, (In "Sour" Gas), Iso-Butane, Carbon, Dioxide, n-Butane, Nitrogen, Pentane Benzene, Hexane, Octanes

Product INFORMATION

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

ANDROID APP ON Google play

Download on the App Store

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

915 N. Eldridge Parkway
Houston, TX 77079
Public Awareness: 1-888-293-7867
Email: uspublicawareness@enbridge.com
Website: www.alliancepipeline.com

INCIDENT COMMAND SYSTEM

Alliance utilizes the Incident Command System (ICS) for managing a response to an emergency.

The ICS organizational structure is designed to coordinate with other responding agencies and to include those agencies inside a unified Command Post for a coordinated response.

IN THE EVENT OF AN EMERGENCY

1. Abandon any equipment being used in or near the area, moving upwind of the product release.
2. Warn others to stay away.
3. **If emergency services have not been notified, call 911 and then call the 24-hour pipeline emergency number for your area.**
4. Follow instructions given to you by local emergency responders and Alliance.

ACTIONS SPECIFIC TO EMERGENCY OFFICIALS

1. Secure the site and determine a plan to evacuate or shelter in place.
2. Monitor for hazardous atmospheres
3. Control and redirect traffic as needed
4. Provide immediate access to Alliance Pipeline representatives
5. Implement your local emergency plan.

PIPELINE LOCATION AND MARKERS

All pipeline markers provide the name of the pipeline operator, product being transported and a telephone number for reporting pipeline emergencies. These markers should never be used as a reference for a pipeline's exact location.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at **https://www.npms.phmsa.dot.gov**.

ALLIANCE PIPELINE UNIQUE CHARACTERISTICS

- Un-odorized
- 1,935 psig - Operating Pressure
- 36" Pipe
- .622" Pipe thickness, thicker under roadways and rivers
- Compressor Stations located every 120 miles
- Automated Block Valves located every 20 miles
- High Energy Natural Gas
  - Methane
  - Propane
  - Butane
  - Ethane
  - Pentane

EMERGENCY CONTACT:
(800) 884-8811

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

Blue Earth	Renville
Chippewa	Sibley
Freeborn	Stevens
Kandiyohi	Swift
Le Sueur	Traverse
Mower	Waseca
Nicollet	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Incident Command
Nick Berning
Area Manager
1208 East Summit Street
Maquoketa, IA 52060
Phone: (563) 652-0532
Fax: (563) 652-0494

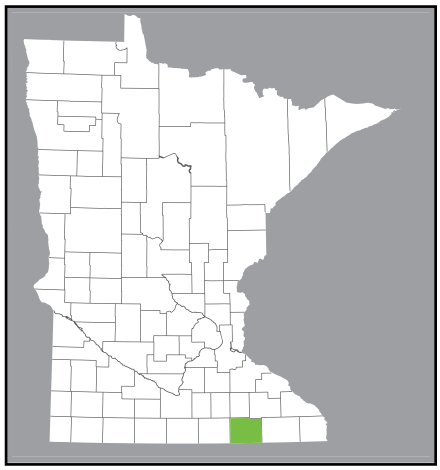
Community & Corridor Representative
Jeff Lauritzen
Phone: (563) 652-0532
Ext: 3531
Cell: (563) 357-4111

Emergency Response Liaison
Paul Kleist
1208 E. Summit St.
Maquoketa, IA, 52060
Phone: (563) 652-0532
Cell: (563) 357-0795

1908 14th St NE
Austin, MN 55912
Phone: 507-433-8886
Email: talk2au@austinutilities.com
Website: www.austinutilities.com

OPERATOR OVERVIEW

Austin Utilities is Municipal Utility providing Natural Gas, Water & Electric services serving the City of Austin and surrounding areas.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Since 1935 Austin Utilities has continued to provide safe and reliable natural gas to our more than over 10,000 customers and operate and maintains over 178 miles of natural gas distribution mains.

Austin Utilities takes great pride and concern for our customers to provide them with a safe and reliable source of natural gas. Annual natural gas leak surveys are performed on buried pipelines and above ground meter sets. Quarterly each year, meter sets and piping throughout the Business Districts, Schools and Churches are inspected and checked for any potential problems.

HOW DO I RECOGNIZE A NATURAL GAS LEAK?

Your sense of sight, hearing and smell are all ways to identify a natural gas leak.

Look for:

- Dead or brown vegetation spots in lawns or boulevards.
- Dirt being blown into the air.
- Water bubbling at a creek, pond, river or wet flooded area
- Fire or explosion near a natural gas line.

Listen:

- A hissing, blowing or roaring sound.

Smell:

- Sulphur or rotten egg smell.

WHAT SHOULD I DO IF I SUSPECT A LEAK?

- Leave the area immediately
- Do not operate any type of electrical device or source of ignition. This would include telephones, cell phones and light switches
- Do not attempt to make any repairs or extinguish a fire.
- From a remote and safe location immediately call Austin Utilities at 507-433-8886.

Austin Utilities will dispatch a trained Gas Service Technician who will take the appropriate steps to monitor the leak and shut down any equipment or valves to minimize the impact of the leak. Staff is available 24 hours a day, 7 days a week.

EMERGENCY CONTACT:
(507) 433-8886

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Mower

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

CALL BEFORE YOU DIG

Buried utilities could exist just about anywhere you dig. To prevent damage to underground utilities please call Gopher State One Call at 1-800-262-1166 or the “Call before you dig hotline” at 811. Report any damages to the Austin Utilities immediately.

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

200 Civic Heights Circle
Circle Pines, MN 55014
Telephone: (763) 784-6751
Website: www.centennialutilities.com

OPERATOR OVERVIEW

Centennial Utilities has a unique history in that it was founded in 1946 with the idea that the municipal utility company would be part of a "functional and contemporary community with the economic advantages of a consumers' cooperative." That meant the municipal utilities, as well as commercial facilities and services, would be owned cooperatively by its residents. The cooperative lifestyle was abandoned after three years, but Circle Pines Utilities lived on with continued growth into the Lino Lakes area by 1961. The name was changed to Centennial Utilities in 2000, portraying the expansion of service from Circle Pines further into the entire Centennial area of Lino Lakes and Blaine.

Our Mission Statement: Centennial Utilities will strive to be the preferred natural gas provider for the Centennial area by providing high value quality within a competitive framework.

After Hours Contact (Central Dispatch):
(763) 427-1212

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Anoka

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

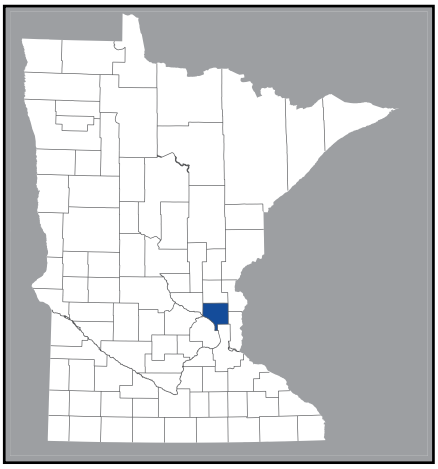
Our goal is to provide safe, reliable gas service to our customers and ensure the safety of those living and/or working near our gas pipelines. Public awareness is a critical component of our overall safety program. Every employee of Centennial Utilities is committed to fulfilling our public awareness responsibilities with management committed to providing the resources necessary to accomplish this goal. By using its existing distribution system, Centennial Utilities is dedicated to keeping pace with the changing utilities industry, while retaining and expanding its customer base with quality and affordable service.

For more information, contact:

Patrick Antonen, Administrator
763-231-2605

Chandra Peterson, Assistant Administrator
763-231-2611

Rich Lavell, Public Works Superintendent
763-231-2606



CenterPoint Energy
505 Nicollet Mall
Minneapolis, MN 55402
www.centerpointenergy.com

ABOUT CENTERPOINT ENERGY

As the only investor-owned electric and gas utility based in Texas, CenterPoint Energy, Inc. is an energy delivery company with electric transmission and distribution, power generation and natural gas distribution operations that serve nearly 7 million metered customers in Indiana, Louisiana, Minnesota, Mississippi, Ohio, and Texas.

Additionally, CenterPoint Energy owns and operates 27 miles of pipeline in northern Kentucky, which serve southeastern Indiana. With approximately 9,000 total employees, CenterPoint Energy and its predecessor companies have been in business for more than 150 years.

COMMITMENT TO SAFETY, HEALTH AND ENVIRONMENT

According to the National Transportation and Safety Board, pipelines are the safest, most economical way to transport products. We are committed to the safe operation of our natural gas pipelines in your community. In fact, we monitor the operations of our pipelines from our control centers 24 hours a day, seven days a week. Our natural gas facilities are designed, installed, tested, operated and maintained in accordance with all applicable federal and state requirements. Because safety is so important, we're dedicated to having an excellent pipeline safety program, including routine inspections, corrosion protection, maintenance and testing programs, employee training and public education.

Due to their proximity to populated or environmentally sensitive areas, some portions of our pipeline systems have been designated as High Consequence Areas. These areas are subject to increased inspection and maintenance measures, known as an integrity management program. More information on CenterPoint Energy's integrity management programs and natural gas safety can be found at **CenterPointEnergy.com/Safety**.

To view and download maps of transmission pipelines in your county, visit www.npms.phmsa.dot.gov, which is the National Pipeline Mapping System managed by the federal government.

If a gas pipeline emergency were to occur, CenterPoint Energy personnel will work directly with local emergency responders. Our priorities at the scene of a pipeline emergency are the same as yours - protect people, property and the environment. CenterPoint Energy field personnel are trained in Incident Command Structure (ICS) and familiar with how to work with local responders within the ICS framework. CenterPoint Energy personnel will restrict the flow of gas and implement other operating actions as needed to minimize the impact of the emergency.

Public safety officials and other unauthorized personnel should not attempt to operate pipeline valves on the pipeline, as this could make the situation worse and cause other accidents to occur.

Since most pipelines are buried underground, pipeline markers are used to indicate their approximate location along the route. They are commonly found where a pipeline intersects a street, highway, railway or river, and they display:

- The material transported in the line
- The name of the pipeline operator
- A telephone number where the pipeline operator can be reached in the event of an emergency

For your safety, always call before you dig. Call 811, the Call Before You Dig number, at least 48 hours (two working days) before you dig. It's easy, it's free and it's the law.

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

EMERGENCY GAS LEAK:
713-207-8888

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

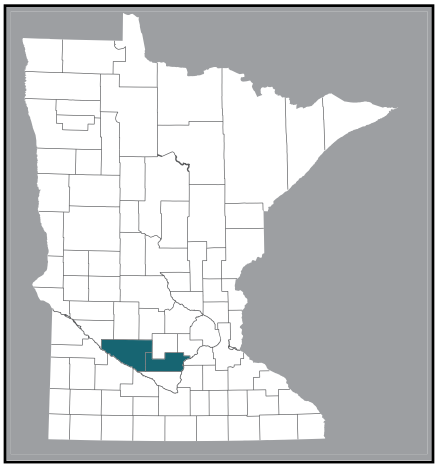
Aitkin	Nicollet
Anoka	Pipestone
Blue Earth	Pope
Brown	Ramsey
Carver	Redwood
Chippewa	Renville
Chisago	Rice
Crow Wing	Rock
Dakota	Scott
Douglas	Sherburne
Faribault	Sibley
Freeborn	Stearns
Hennepin	Steele
Isanti	Stevens
Kanabec	Swift
Kandiyohi	Todd
Le Sueur	Waseca
McLeod	Washington
Meeker	Watonwan
Mille Lacs	Wright
Morrison	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

18 1st St. SE
Fairfax, MN 55332
Telephone: (507) 426-7255
Website: www.fairfax-mn.gov

OPERATOR OVERVIEW

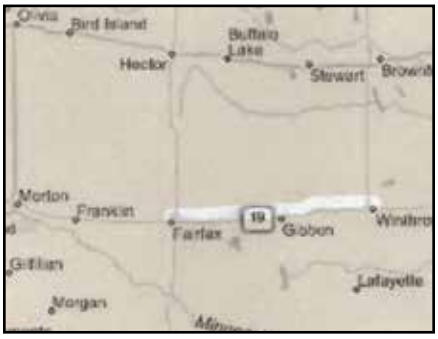
City of Fairfax is a natural gas distribution company serving the communities of Fairfax and Gibbon. Our distribution Lines are Located along State Highway 19, from one mile east of Winthrop (Sibley County) to Fairfax (Renville County) as well as in Fairfax and Gibbon. It to provide safe, reliable and efficient natural gas service to its many customers.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

The City of Fairfax is committed to public safety, protection of the environment, and operation of its facilities in compliance with all applicable rules and regulations. The City of Fairfax pipelines fall under the regulatory oversight of the Office of Pipeline Safety in the U.S. Department of Transportation. The company is proud of its safety record and follows many regulations and procedures to monitor and ensure the integrity of its pipelines.

- Visual inspections of Fairfax's pipelines are conducted on a regular basis. Above ground marker signs are displayed along the pipeline to alert the public and contractors to the existence of the pipeline.
- Cathodic protection is a technology designed to protect pipelines from external corrosion through the use of anodes. The anodes are attached to our steel pipelines, which have an external protective coating.
- Fairfax's public education program is designed to prevent third-party damage to its pipelines. Additionally, the company is a member of "Gopher State One Call" program, which is designed to help the public, contractors and others identify the location of pipelines before excavation or digging projects to prevent damage to pipelines and protect the public. The leading cause of pipeline accidents is third-party damage caused by various types of digging and excavation activities.
- Emergency preparedness and planning measures are in place at The City of Fairfax in the event that a pipeline incident occurs. The company also works closely with local emergency response organizations to educate them regarding our pipelines and how to respond in the unlikely event of an emergency. The City of Fairfax has squeeze off tools that are used to shut down gas lines in case of an emergency. The City of Fairfax also receives support from the City of New Ulm during emergencies.



EMERGENCY CONTACT:
24 hr (507) 221-7255
Office (507) 426-7255

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

Renville Sibley

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Pipelines are the most efficient and safest method by which to transport and deliver natural gas and they are inherently safer than other modes of transportation such as rail, barge and truck. While the amount of natural gas being used in the U.S. continues to increase dramatically, the industry's safety performance in recent years was improved significantly and serious accidents are rare. Pipelines help ensure a plentiful supply of natural gas to heat homes and businesses and generate electricity. There are well over one million miles of natural gas and product pipelines in the U.S.

335 3rd Street South
Brownton, MN 55312
Phone: 1-320-328-5318
Website: www.cityofbrownton.com

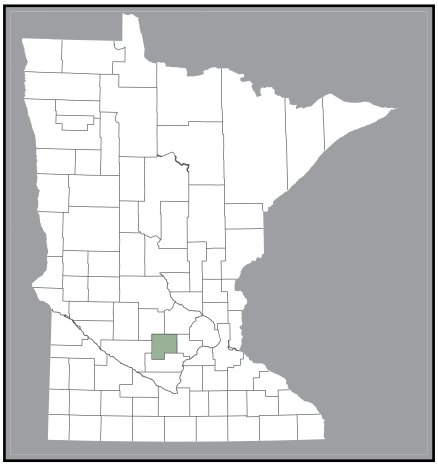
OPERATOR OVERVIEW

Brownton Municipal Natural Gas is a municipal natural gas utility that provides natural gas service to approximately 280 residential, commercial and industrial customers, primarily within the city limits of Brownton.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Brownton Municipal Natural Gas is committed to public safety, protection of the environment, and operation of its facilities in compliance with all applicable rules and regulations.

Pipeline operating conditions are monitored 24 hours a day, 7 days a week by personnel in Hutchinson Utilities' System Control Center utilizing a Supervisory Control and Data Acquisition (SCADA) system. This electronic surveillance system gathers such data as pipeline pressures and flow rates. Whenever operating conditions change, an alarm warns the operator on duty and the condition is investigated. Manual valves are strategically placed within the distribution system to enable the system to be shutdown immediately and sections to be isolated quickly, if necessary.



- Visual inspections of the City of Brownton Municipal Natural Gas right-of-ways are conducted on a regular basis. The right-of-way is a narrow strip of land reserved for the pipeline. Above ground line markers are installed along the right-of-way to alert the public and contractors to the existence of the natural gas facilities.
- Brownton Municipal Natural Gas public education program is designed to prevent third-party damage to its pipelines. Additionally, the utility is a member of Minnesota's "Gopher State One Call" program, which is designed to help the public, contractors and others identify the location of pipelines before excavation or digging projects to prevent damage to pipelines and protect the public. The leading cause of pipeline accidents is third-party damage caused by various types of digging and excavation activities.
- Emergency preparedness and planning measures are in place at Brownton Municipal Natural Gas in the event that an incident occurs. The utility also works closely with local emergency response organizations to educate them regarding our facilities and how to respond in the unlikely event of an emergency.

For more information about Brownton Municipal Natural Gas contact Hutchinson Utilities at 320-587-4746 or visit www.cityofbrownton.com.

EMERGENCY CONTACT:
Hutchinson Utilities System Control
(877) 593-3973 or (320) 587-4745

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

McLeod

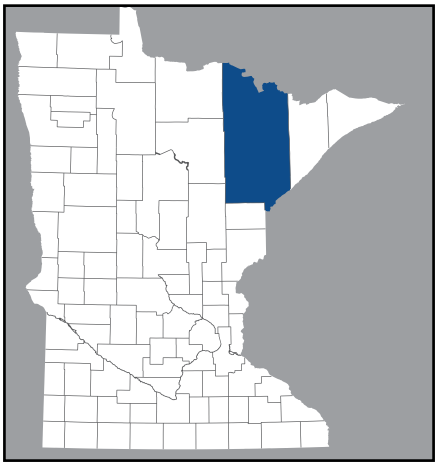
Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

520 Garfield Avenue
Duluth, MN, 55816-9001
Phone: (218) 730-4050
Fax: (218) 730-4177
Website: www.comfortsystemsduluth.com

OPERATOR OVERVIEW

City of Duluth Public Works and Utility Department provides water, natural gas, sewer, and storm water utility services to the City of Duluth, Minnesota. The department provides gas service to more than 27,000 customers in and around Duluth.

The gas utility, known as ComfortSystems to consumers, purchases its annual natural gas supply from several suppliers who deliver their products through pipelines operated by Northern Natural Gas Pipeline or Great Lakes Gas Transmission Pipeline. Natural gas received from Great Lakes Gas Transmission Pipeline is transported a total of 5.33 miles through the Duluth Gas Transmission Line in Wisconsin and Minnesota to Duluth's metering station. These supplies of natural gas are then redistributed through 488 miles of mains in the department's local distribution system to residential, commercial, and industrial customers. Duluth Public Works and Utilities has developed a comprehensive infrastructure that enables it to provide safe, reliable and efficient natural gas service to its customers.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

The City of Duluth Public Works and Utilities Department is committed to follow all relevant safety and security measures, as well as comply with all governmental regulations regarding transmission of natural gas through the Duluth Gas Transmission Line. We work with federal and state regulators and local emergency responders to verify that these integrity management plans, pipeline testing and preventative measures are appropriate for the conditions along the pipeline.

Pipeline operating conditions are monitored by personnel in our Duluth Gas Control Center. Visual inspection of Duluth's pipeline right-of-way are conducted on a regular basis. The right-of-way is a narrow strip of land reserved for the pipeline. Above ground marker signs are displayed along the right-of-way to alert the public and contractors to the existence of the pipeline.

Cathodic protection is used to protect pipelines from external corrosion by applying a small electrical current to the surface of the pipe.

Minnesota's Gopher State One-Call and Wisconsin's Digger's Hotline are utility locater programs. They can prevent third-party damage to pipelines and protect the public by helping the public, contractors, and others locate pipelines before they begin digging or start excavation projects. Contact them by calling 811. The leading cause of pipeline accidents is third-party damage caused by various types of digging and excavation activities.

Emergency preparedness and planning measures are in place at Duluth Public Works and Utilities in the event that a pipeline incident occurs. The department works closely with local emergency response organizations to educate them regarding our pipelines and how to respond in the unlikely event of an emergency.

EMERGENCY GAS CONTROL:
(218) 730-4100

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

St. Louis

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Pipelines are the most efficient and safest method by which to transport and deliver natural gas and they are inherently safer than other modes of transportation such as rail, barge and truck. While the amount of natural gas being used in the U.S. continues to increase, the industry's safety performance in recent years has improved significantly and serious accidents are rare. Pipelines help ensure a plentiful supply of natural gas to heat homes and businesses and generate electricity. There are well over one million miles of natural gas and product pipelines in the U.S.

City of Hallock

P.O. Box 336
163 South Third
Hallock, MN 56728-0336
Phone (218) 843-2737
Fax (218) 843-2579
Website: www.hallockmn.org

OPERATOR OVERVIEW

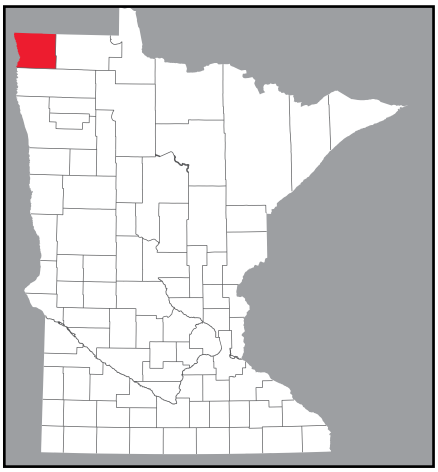
The City of Hallock is a combination municipal natural gas, sewer and water utility that provides natural gas service to approximately 450 residential, commercial and industrial customers, primarily with the city limits of Hallock. The City of Hallock gas initiated operations in the 1960s.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

The City of Hallock is committed to public safety, protection of the environment, and operation of its facilities in compliance with all applicable rules and regulations.

Pipeline operating conditions are monitored constantly with City personnel on call 24 hours a day.

Whenever operating conditions change, an alarm warns the operator on duty and the condition is investigated. Manual valves are strategically placed within the distribution system to enable the system to be shut down immediately and sections to be isolated quickly, if necessary.



- Visual inspections of the City of Hallock Natural Gas right-of-ways are conducted on a regular basis. The right-of-way is a narrow strip of land reserved for the pipeline. Above ground line markers are installed along the right-of-way to alert the public and contractors to the existence of the natural gas facilities.
- The City of Hallock Natural Gas public education program is designed to prevent third-party damage to its pipelines. Additionally, the city is a member of Minnesota's "Gopher State One Call" program, which is designed to help the public, contractors and others identify the location of pipelines before excavation or digging projects to prevent damage to pipelines and protect the public. The leading cause of pipeline accidents is third-party damage caused by various types of digging and excavation activities.
- Emergency preparedness and planning measures are in place at the City of Hallock in the event that an incident occurs. The city also works closely with local emergency response organizations to educate them regarding our facilities and how to respond in the unlikely event of an emergency.

CONTACTS

Mayor
Dave Treumer

Council Members
Mike Totleben
Naomi Larson
Jen Peterson
Kevin Waller

City Administrator
Aimee Sugden

EMERGENCY GAS CONTROL:
(218) 843-2737 or (218) 843-2559

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Kittson

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

City of Stephen

P.O. Box 630
Stephen, MN 56757
Phone (218) 478-3614
Fax (218) 478-3806
Website: www.stephenmn.com

OPERATOR OVERVIEW

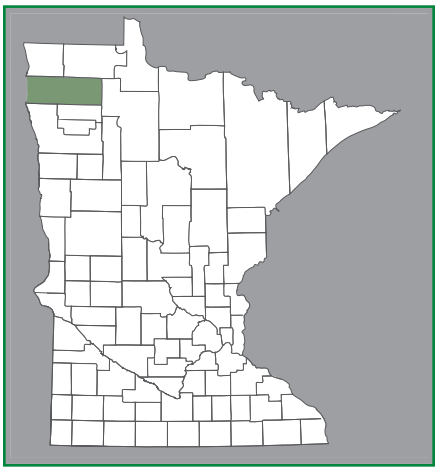
The City of Stephen is a combination municipal natural gas, sewer and water utility that provides natural gas service to approximately 350 residential, commercial and industrial customers, primarily with the city limits of Stephen. The City of Stephen gas initiated operations in the 1960s.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

The City of Stephen is committed to public safety, protection of the environment, and operation of its facilities in compliance with all applicable rules and regulations.

Pipeline operating conditions are monitored constantly with City personnel on call 24 hours a day.

Whenever operating conditions change, an alarm warns the operator on duty and the condition is investigated. Manual valves are strategically placed within the distribution system to enable the system to be shut down immediately and sections to be isolated quickly, if necessary.



ANY QUESTIONS PLEASE FEEL FREE TO CALL

218-478-4135

THANK YOU!

- Visual inspections of the City of Stephen Natural Gas right-of-ways are conducted on a regular basis. The right-of-way is a narrow strip of land reserved for the pipeline. Above ground line markers are installed along the right-of-way to alert the public and contractors to the existence of the natural gas facilities.
- The City of Stephen Natural Gas public education program is designed to prevent third-party damage to its pipelines. Additionally, the city is a member of Minnesota's "Gopher State One Call" program, which is designed to help the public, contractors and others identify the location of pipelines before excavation or digging projects to prevent damage to pipelines and protect the public. The leading cause of pipeline accidents is third-party damage caused by various types of digging and excavation activities.
- Emergency preparedness and planning measures are in place at the City of Stephen in the event that an incident occurs. The city also works closely with local emergency response organizations to educate them regarding our facilities and how to respond in the unlikely event of an emergency.

CONTACTS

Mayor
David McGlynn

Council Members
Daniel Douglas
Patsy Heggen
Austin Grochowski
Brian Hendricks

City Clerk Adm.
Brett Kuznia

EMERGENCY GAS CONTROL:
(218) 478-3614 or (218) 478-3803

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Marshall

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

230 North Tyler Street
Tyler, MN 56178
Telephone: (507) 247-5556
Fax: (507) 247-5557
Website: www.tyler.govoffice.com

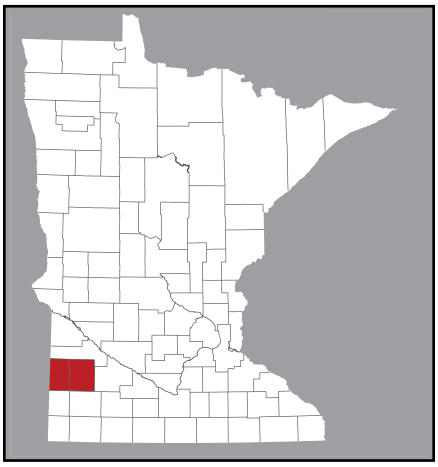
OPERATOR OVERVIEW

City of Tyler is a natural gas distribution company serving the City of Tyler. Lines are located North and East of Tyler along County Road 8, County Roads 11 and 16 to County Road 51 to Township 68 and County Road 66 to Township Road 39; where our Town Border Station ties into Northern Border Pipeline.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

The City of Tyler's goal is to provide safe, reliable and efficient gas service to our customers. Our pipeline falls under the regulatory oversight of the Office of Pipeline Safety and the U.S. Department of Transportation. Visual inspections are taken on a regular basis with above ground markers along the pipeline route. Anodes are used to protect pipeline for cathodic protection.

The City of Tyler is a member of the gopher-state one call program. Emergency preparedness and planning measures are in place at the City of Tyler in the event of an emergency. The City Gas Department has tools available to shut down gas lines in case of an emergency. In major cases, the city can receive support from the City of New Ulm.



EMERGENCY CONTACT:
(507) 247-5176

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

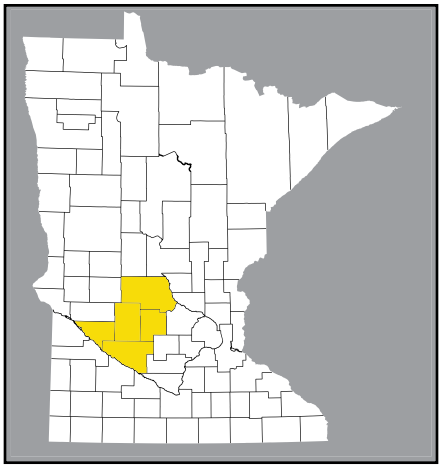
Lincoln Lyon

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

3101 3rd Ave SW
Willmar, MN 56201
Telephone: (320) 235-2466
Website:www.dooleysnaturalgas.com

OPERATOR OVERVIEW

Dooley's Natural Gas is owned by Randy Dooley. Dooley's Natural Gas currently operates natural gas distribution systems serving agricultural and industrial customers along with the communities of Belgrade, Blomkest, Brooten, Clara City, Maynard, Prinsburg, Raymond, Roseland and Svea, Minnesota. Dooley's Natural Gas was established in 2012 in the counties of Renville, Chippewa and Kandiyohi and expanded into Meeker and Stearns counties in 2014.



EMERGENCY CONTACT:
(320) 235-2466

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Chippewa	Renville
Kandiyohi	Stearns
Meeker	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

COMMITMENT TO SAFETY

Dooley's Natural Gas is committed to public safety, protection of the environment and operation of its facilities in compliance with all applicable rules and regulations. Our pipeline system is inspected and monitored regularly to ensure integrity.

Dooley's Natural Gas also maintains a Damage Prevention Program in accordance with state and federal guidelines. The purpose of this program is to prevent damage to our pipeline and facilities from excavation activities, such as digging, trenching, boring, or any other excavation activities.

Emergency preparedness and planning measures are in place at Dooley's Natural Gas in the unlikely event that a natural gas incident occurs.

HOW CAN YOU TELL WHERE A PIPELINE IS LOCATED?

Since most pipelines are buried underground, line markers are used to indicate their approximate location along the route. The markers can be found where a pipeline intersects a street, highway or railway. Some local distribution pipelines however are not typically identified with pipeline markers. Call 811 to help identify the location of these pipelines.

Dooley's Natural Gas is a member of the Gopher State One Call Center, Minnesota's "call-before-you-dig" system which is designed to ensure the public, contractors, and others identify the location of pipelines and underground facilities before excavation or digging projects begin to prevent damage to pipelines and protect the public.

HOW TO RECOGNIZE A LEAK

Sight: Dying, discolored or abnormally dry soil/ vegetation, continuous bubbling in wet or flooded areas, vaporous fogs or blowing dirt around a area can all be indicative of a pipeline leak.

Sound: Volume can range from a quiet hissing to a loud roar depending on the size of the leak.

Smell: An unusual smell, petroleum odor or rotten egg odor will sometimes accompany pipeline leaks.

IF YOU SUSPECT A LEAK

If you suspect a natural gas leak inside your home or on your service line, immediately evacuate and contact 911 and your local gas company from a safe distance.

Our company's emergency response plan is available upon request.

915 N. Eldridge Parkway, Suite 1100
Houston, TX 77079
Public Awareness: 1-888-293-7867
Email: uspublicawareness@enbridge.com
Website: www.enbridge.com

Life takes energy: to heat our homes, to feed our families, to fuel our vehicles. Enbridge connects people to the energy they need to help fuel their quality of life.

In the United States alone, more than two million miles of pipelines deliver petroleum and natural gas products. Every year, Enbridge invests in the latest technology and training to meet the high environmental and safety standards our neighbors expect, and to keep pipelines the safest, most efficient and most reliable way to move energy resources.

Call or click before you dig
811 and **ClickBeforeYouDig.com** are free services designed to keep you safe when digging. Calling or clicking is always the safest option anytime you are moving dirt. At least two to three business days before your project (depending on state law), simply call 811 or visit **www.ClickBeforeYouDig.com** with important details about your work, including:

- The type of work you'll be doing and a description of the area
- The date and time your project will begin
- Your worksite's address, the road on which it's located and the nearest intersection
- Driving directions or GPS coordinates
- Within two to three business days, professional locators will mark underground utility lines—including pipelines (marked with yellow flags or paint)—so you can work around them, saving yourself from possible injury or property damage.

Pipeline location and markers
All pipeline markers provide the name of the pipeline operator, product being transported and a telephone number for reporting pipeline emergencies. These markers should never be used as a reference for a pipeline's exact location.

Emergency responder education program

Enbridge offers a free online education program to provide public safety and local public officials with the information needed to safely and effectively respond to a pipeline emergency. This program focuses on information specific to the disciplines of firefighting, law enforcement, 9-1-1 dispatch, emergency medical services, emergency management and local government. Additionally, course completion may count for state-level continuing education (CE) credits. Register for the training at **www.mypipelinetraining.com**.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at **https://www.npms.phmsa.dot.gov.**

What if there is an emergency?
Enbridge facilities are designed to be quickly isolated with block valves for rapid containment in the event of an emergency. We have pre-arranged plans with local emergency personnel and periodically conduct emergency drills with these groups.

EMERGENCY CONTACT:
(800) 858-5253 (Liquids)

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Crude Oil	1267	128
Natural Gas Liquid	1075	115
Petroleum Distillate	1268	128

MINNESOTA
COUNTIES OF OPERATION:

Aitkin	Crow Wing	Pennington
Beltrami	Hubbard	Polk
Carlton	Itasca	Red Lake
Cass	Kittson	St. Louis
Clearwater	Marshall	Wadena

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Incident Command System
Enbridge utilizes the Incident Command System (ICS) for managing a response to an emergency.

The ICS organizational structure is designed to coordinate with other responding agencies and to include those agencies inside a unified Command Post for a coordinated response.

In the event of an emergency
1. Abandon any equipment being used in or near the area, moving upwind of the product release
2. Warn others to stay away
3. **If emergency services have not been notified, call 911 and then call the 24-hour pipeline emergency number for your area**
4. Follow instructions given to you by local emergency responders and Enbridge

Actions Specific to Emergency Officials
1. Secure the site and determine a plan to evacuate or shelter in place.
2. Monitor for hazardous atmospheres
3. Control and redirect traffic as needed
4. Provide immediate access to Enbridge Pipeline representatives
5. Implement your local emergency plan

1100 Louisiana
Houston, TX 77002
Public Awareness: 1-888-806-8152
Email: publicawareness@eprod.com
Website: www.enterpriseproducts.com

COMPANY INFORMATION, ASSETS & PRODUCTS TRANSPORTED

Enterprise owns interests in 16,648 miles of NGL pipelines, 156 million barrels of working capacity of NGL and related product storage and import and export facilities. These NGL pipelines transport mixed NGLs and other hydrocarbons from natural gas processing facilities, refineries and import terminals to fractionation plants, petrochemical plants, export facilities and refineries.

The company's Mid-America Pipeline system operates approximately 217 miles of pipelines throughout the state of Minnesota transporting isobutane, naphtha, normal butane, natural gasoline and propane. For additional information on Enterprise, visit www.enterpriseproducts.com.

LOCATING ENTERPRISE PIPELINES PIPELINE VIEWER TOOL

To find more information regarding location and products transported in our pipelines within one (1) mile of a specific address, visit our website at: www.enterpriseproducts.com/pipelineviewer. Please note the asset map and pipeline viewer tool are for informational purposes only.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at www.npms.phmsa.dot.gov.

EMERGENCY RESPONSE PLAN

An Emergency Response Plan is developed for each pipeline facility to contain, control and mitigate the various types of emergency conditions/situations that could occur at one of our facilities. For more information regarding Enterprise Products emergency response plans and procedures, contact us at publicawareness@eprod.com.

EMERGENCY RESPONSE CAPABILITIES

The Company's qualified personnel are trained in safe operations and emergency response activities and participate in exercises reflecting various types of emergency scenarios and environmental sensitivities. The Company utilizes the First Responder/Emergency Response Team concept to handle emergency incidents at its facilities. Employees receive hands on training in fire fighting, hazardous material spill response and rescue/medical/first aid training. In addition, we maintain a well trained team of employees from various Company locations as members of the Corporate Emergency Organization. This team, as well as an array of emergency response equipment (including, but not limited to, cell phones, fire extinguisher, supplied breathing air, and air monitoring equipment), can be mobilized and deployed to assist in handling emergency situations that may occur at a Company facility or pipeline location.

Enterprise Products utilizes its 24 hour/365 day a year, Pipeline Operations Control Center (888-883-6308) as a hub of communications in emergency response situations. Our manned control center monitors the flow, pressure, temperatures, and other conditions throughout the pipeline systems and is an integral part of our communication during emergency situations.

ENTERPRISE PRODUCTS' RESPONSE IN AN EMERGENCY

- We will immediately dispatch personnel to help handle the emergency at the site.
- We will provide information to public safety officials to aid in their response to the emergency.
- We will take necessary operating actions such as closing and opening valves to minimize the impact of the leak.
- Public safety personnel and others unfamiliar with the pipeline should not attempt to operate any of the valves on the pipeline, unless instructed to do so by Enterprise Products personnel. Improper operation of the pipeline valves could make the situation worse and cause other accidents to happen.

INCIDENT COMMAND SYSTEM

Enterprise Products utilizes an expandable Incident Command System. Depending upon the size and complexity of an incident, additional Company or contract personnel may be added as needed. Additional federal, state or local agencies may be integrated into the Incident Command System by utilizing a Unified Command Structure.

EMERGENCY CONTACT:
(888) 883-6308

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Isobutane	1075	115
Naphtha	1268	128
Natural Gasoline	1203	128
Normal Butane	1075	115
Propane	1075/1978	115

MINNESOTA COUNTIES OF OPERATION:

Blue Earth	Martin
Dakota	Rice
Jackson	Scott
Le Sueur	Watonwan

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

SPILL RESPONSE EQUIPMENT CAPABILITIES

We maintain emergency response equipment at some of our facilities. We also have agreements with various oil spill response organizations to provide the appropriate level of response with spill response equipment including trailers containing spill booms, sorbent materials, boats, motors, hand tools, power tools, pumps, hoses, personal protective equipment, first aid and miscellaneous supplies. These companies also have expert personnel trained in emergency response and cleanup methods.

CONTACT

Nick Nicholson
10825 Courthouse Blvd. E
Inver Grove Heights, MN 55077
Phone: 651-453-5302
DDNICHOLSON@eprod.com

FLINT HILLS resources®

4111 E 37th St N
Wichita, KS 67220
Telephone: 855-831-6353
Email: pipelinesafety@fhr.com
Website: www.fhr.com

Flint Hills Resources owns and/or operates over 4,000 miles of pipeline systems that transport crude oil, refined petroleum products, chemicals and natural gas liquids, efficiently, reliably, and safely. In Minnesota, Flint Hills Resources operates the Wood River Pipeline System, the Wisconsin Pipeline System, and the Minnesota Pipeline Company System, which transport crude oil and refined petroleum products.

FLINT HILLS RESOURCES INTEGRITY MANAGEMENT PROGRAM

Flint Hills Resources is committed to maintaining the highest standards in safety. Flint Hills Resources has an Integrity Management Program that is designed to protect the mechanical integrity, safety, and reliability of its pipelines. Flint Hills Resources adheres to federal and state regulations and also partners with local emergency responders to verify that this integrity management plan is appropriate for each section of its pipelines.

EMERGENCY CONTACT:
(800) 688-7594

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Anhydrous Ammonia	1005	125
Butane	1011/1075	115
Crude Oil	1267	128
Diesel Fuel	1202/1993	128
Gasoline	1203	128
Jet Fuel	1863	128
Propane	1075/1978	115

MINNESOTA COUNTIES OF OPERATION:

Anoka	Hubbard	Sibley
Benton	McLeod	Stearns
Carver	Meeker	Steele
Clearwater	Morrison	Todd
Dakota	Rice	Wadena
Freeborn	Scott	Washington
Hennepin	Sherburne	Wright

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Contact the Minnesota One Call Center by calling 811 at least 48 hours, but not to exceed 14 calendar days before you want to dig. The One Call Center will notify Flint Hills Resources and other utilities of your intent to dig.

Wait for facility owners to mark their underground facilities using paint, lags and/or stakes.

Confirm that all facilities have been marked. If you know or believe that facilities have not been properly marked, you must make another call to the one call center before beginning any excavation work.

When digging within 25 feet of a Flint Hills Resources pipeline, a representative from the company must be present during the excavation.

Expose the underground facility by carefully hand-digging or using other non-mechanized equipment until the location and route is confirmed. Continue to use caution even after the facility is exposed. Obey safe excavating practices and your state laws.

RECOGNIZE

Your sense of sight, sound and smell may help you recognize the signs of a pipeline leak.

Sight – Seeing a pool of liquid, a white cloud or fog, discolored vegetation, flames or vapors, oily sheen or water bubbling near a pipeline without obvious reason.

Sound – Hearing a hissing, roaring or bubbling sound from the ground or water near a pipeline.

Smell – Smelling a strange or unusual smell, such as a strong petroleum odor or "rotten eggs" near a pipeline.

REACT

DO stop work immediately.
DO turn off and leave equipment and vehicles.
DO immediately leave the area, on foot, in an upwind or crosswind direction, away from any vapors or fumes.
DO warn others to stay away.
DO NOT do anything that might ignite the leaking product, including making a phone call, starting an engine or driving a vehicle, lighting a match, or even switching on or off a light.
DO NOT operate any pipeline valves.
DO NOT touch or inhale the product.

REPORT

- Call 911 or the local fire or police department.
- When it is safe to do so, call the Flint Hills Resources 24-hour emergency number 1-800-688-7594

811
Know what's **below.**
Call before you dig.

CALL BEFORE YOU DIG

Before you dig, drill, blast, or move any ground near a pipeline, call 811. This free call notifies your local one call center to have representatives of underground utilities come out and mark their facilities at no charge to you. Required by law, calling 811 can save your life, decrease the cost of your project, and prevent damage to our underground pipeline transportation system.

One Call Center	Phone Number	Website
811 National	811	www.call811.com
Minnesota One Call	1-800-252-1166	www.gopherstateonecall.org

GREAT PLAINS
NATURAL GAS CO.
A Division of Montana-Dakota Utilities Co.
In the Community to Serve®

Headquarters:
Great Plains Natural Gas Co.
400 N. Fourth St.
Bismarck, ND 58501
Website: www.gpng.com

OPERATOR OVERVIEW

Great Plains Natural Gas Co. (Great Plains) operates approximately 1,000 miles of natural gas pipeline. This natural gas is delivered for household, commercial and industrial use. Great Plains operates a safe and efficient pipeline distribution network of stations, mains, services and meters. Natural gas is the most popular home heating fuel in America, and natural gas pipelines are among the safest and most secure methods of transporting energy.

In addition, pipeline operators are extensively regulated by federal and state regulations with regard to design, construction, operation and maintenance. The natural gas industry works diligently to stay abreast of new safety methods and technologies to ensure the highest levels of security. Great Plains maintains memberships in industry associations, and we continually evaluate our security procedures for enhancement. At Great Plains our primary goal is to deliver natural gas reliably and safely to you, our customer. In doing so, we want you to know what to do if you ever smell gas or if a natural gas pipeline emergency occurs where you live or work.

HAZARD AWARENESS & PREVENTION MEASURES

Natural gas pipelines have the best safety record of any type of transportation system in the United States. Natural gas is clean, convenient and efficient, which makes it the popular energy of choice. Like all forms of energy, however, it must be handled properly. Despite an excellent safety record, a gas leak caused by damage to a pipeline may pose a hazard and has the potential to ignite. Great Plains works diligently to ensure the safety of our pipeline through a variety of measures.

UTILITY MARKERS

For your safety, markers show the approximate location of pipelines and identify the companies that own and operate them. Markers may be anywhere along the right-of-way or directly over the pipelines. The pipeline may not follow a straight course between markers. While markers are helpful in locating pipelines, they provide limited information. They provide no information, for example, on depth or number of pipelines in the right-of-way. The markers can be found where pipelines intersect a street, highway or railroad. These markers display the material transported in the pipeline, the name of the pipeline operator, and telephone number where the pipeline operator can be reached in the event of an emergency. You should be aware of any pipeline markers in your neighborhood and, if possible, write down the name and phone numbers appearing on the pipeline markers in case of an emergency.

EMERGENCY CONTACT:
(877) 267-4764

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Chippewa
Lac Qui Parle
Lyon
Ottertail
Polk
Redwood
Renville
Wilkin
Yellow Medicine

NORTH DAKOTA
COUNTIES OF OPERATION:

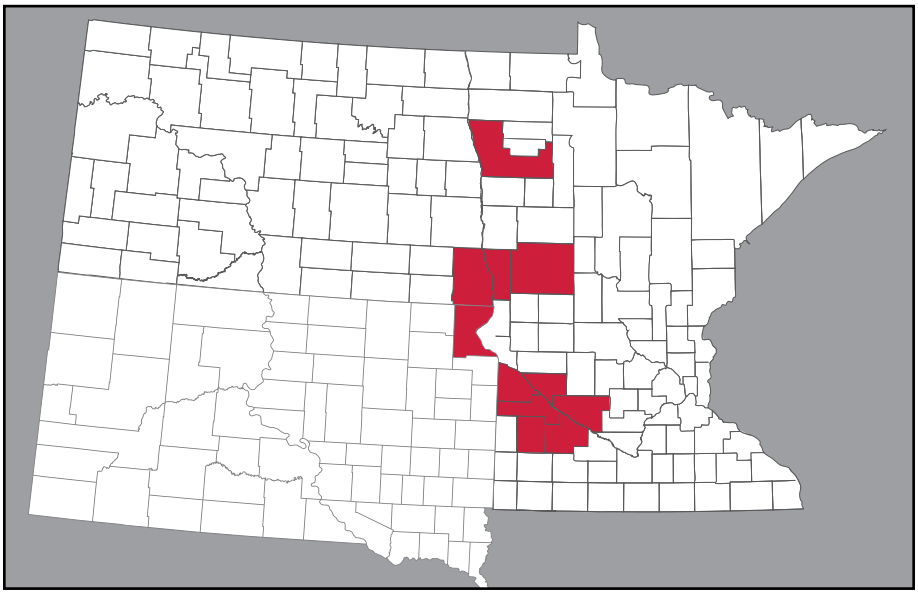
Richland

SOUTH DAKOTA
COUNTIES OF OPERATION:

Roberts

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

For additional information and/or training please contact Great Plains at awareness@gpng.com or 1-877-267-4764.



GREATER MINNESOTA GAS

GREATER MINNESOTA TRANSMISSION

Corporate Office:
1900 Cardinal Lane
Faribault, MN 55021
Phone: (888) 931-3411
Fax: (507) 665-8602
Website: www.greatermngas.com

OPERATOR OVERVIEW

GREATER MINNESOTA GAS

Greater Minnesota Gas, Inc. (GMG) is a regulated natural gas energy company providing natural gas distribution service to residential, commercial, industrial and agricultural customers in primarily rural Minnesota. Pipeline sizes range from half to six inches in diameter and are comprised of medium density plastic, high density plastic and steel.

GREATER MINNESOTA TRANSMISSION

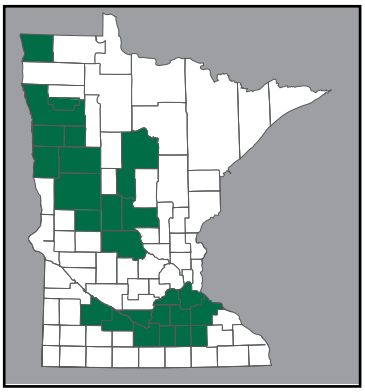
Greater Minnesota Transmission, LLC (GMT) is a regulated natural gas energy company providing natural gas access to rural Minnesota. Greater Minnesota Transmission operates a regulated sixteen-inch steel natural gas pipeline.

To deliver natural gas safely and reliably throughout the state, we have three Operational Service Centers to support our pipeline systems:

GMG Service Center Southern MN
1900 Cardinal Lane
Faribault, MN 55021

GMG Service Center Northern MN
22854 County Highway 6
Detroit Lakes, MN 56501

GMG Service Center Central MN
22 5th Street, Building 1
Swanville, MN 56382



SAFETY IS OUR TOP PRIORITY

We are committed to public safety, health and the environment through protection, operation, maintenance and routine inspection in compliance with all applicable rules and federal regulations. Our technicians are trained to assure a safe response to operational issues and gas-related emergencies. We conduct periodic leak inspection and patrol for activities near pipelines that may have an impact on safety.

Our Pipeline Awareness Program helps prevent third-party damage and increases the public's awareness of steps to take in the event of any pipeline emergency.

For a copy of our Integrity Management Plan, Damage Prevention Plan, Pipeline Awareness or Emergency Response Plan please call us at (888) 931-3411.

HOW CAN YOU TELL WHERE A PIPELINE IS LOCATED?

Natural gas pipelines are installed underground. Therefore, to identify the approximate location, line markers are installed with the company name and emergency telephone number.

HOW WE RESPOND IN THE EVENT OF A PIPELINE LEAK OR LINE HIT

To prepare for an event, we communicate, plan and train with local emergency responders. Upon notification of an event, trained and qualified personnel are dispatched in response. Our technicians, in partnership with emergency responders, are trained to protect life, property and facilities.

EMERGENCY CONTACT:
(888) 931-3411

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Becker	Kittson	Redwood
Blue Earth	Le Sueur	Rice
Brown	Mahnomen	Scott
Cass	Morrison	Stearns
Clay	Nicollet	Steele
Dakota	Norman	Todd
Dodge	Otter Tail	Waseca
Douglas	Polk	
Goodhue	Red Lake	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

GMG offers training to emergency response organizations on the hazards of and how to respond to gas-related emergencies at no cost. If you are interested in this training, please call (888) 931-3411.

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

GSOC GOPHER STATE ONE CALL

ALWAYS CALL BEFORE YOU DIG

Whether you are a professional excavator or homeowner, in accordance with Minnesota State law, you must contact Gopher State One Call (GSOC) before starting any excavation project if you are using any machine-powered equipment of any kind, or explosives. You may be simply installing a new mail box or planting a tree, whatever the project may be, contacting GSOC before starting your project may allow you to avoid costly damages to underground facilities. Call 811 or visit: www.gopherstateonecall.org to start the process. Allow at least two business days before digging.

53331 State Hwy 19
PO Box A
Winthrop, MN 55396
Phone: (507) 647-5000
Website: www.heartlandcorn.com

OPERATOR OVERVIEW

Heartland Corn Products owns a 7.78 mile, 6" natural gas pipeline which Hutchinson Utilities operates and maintains. The pipeline extends across a portion of Sibley County. Heartland Corn Products utilizes natural gas to help fuel the process of converting corn into fuel grade ethanol, corn oil, and dried distillers grains at its facility east of Winthrop, MN.

PIPELINE SAFETY

System failures occur infrequently along the nation's network of interstate natural gas pipeline facilities, and many of these are caused by damage from others digging near the pipeline. We watch for unauthorized digging, but we request your help to notify us.

ALWAYS CALL 811 BEFORE YOU DIG!

WHAT ARE THE SIGNS OF A NATURAL GAS PIPELINE LEAK?

- Blowing or hissing sound
- Dust blowing from a hole in the ground
- Continuous bubbling in wet or flooded areas
- Gaseous or hydrocarbon odor
- Dead or discolored vegetation in a green area
- Flames, if a leak has ignited

WHAT SHOULD I DO IF I SUSPECT A PIPELINE LEAK?

Your personal safety should be your first concern:

- Evacuate the area and prevent anyone from entering
- Abandon any equipment being used near the area
- Avoid any open flames
- Avoid introducing any sources of ignition to the area (such as cell phones, pagers, 2-way radios)
- Do not start/turn off motor vehicles/ electrical equipment
- Call 911 or contact local fire or law enforcement
- Notify the pipeline company
- Do not attempt to extinguish a natural gas fire
- Do not attempt to operate any pipeline valves

PIPELINE LOCATION AND MARKERS

Pipeline markers are used to indicate the approximate location of a natural gas pipeline and to provide contact information. Aerial patrol planes also use the markers to identify the pipeline route. Markers should never be removed or relocated by anyone other than a pipeline operator.

EMERGENCY CONTACT:
(507) 647-5000

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

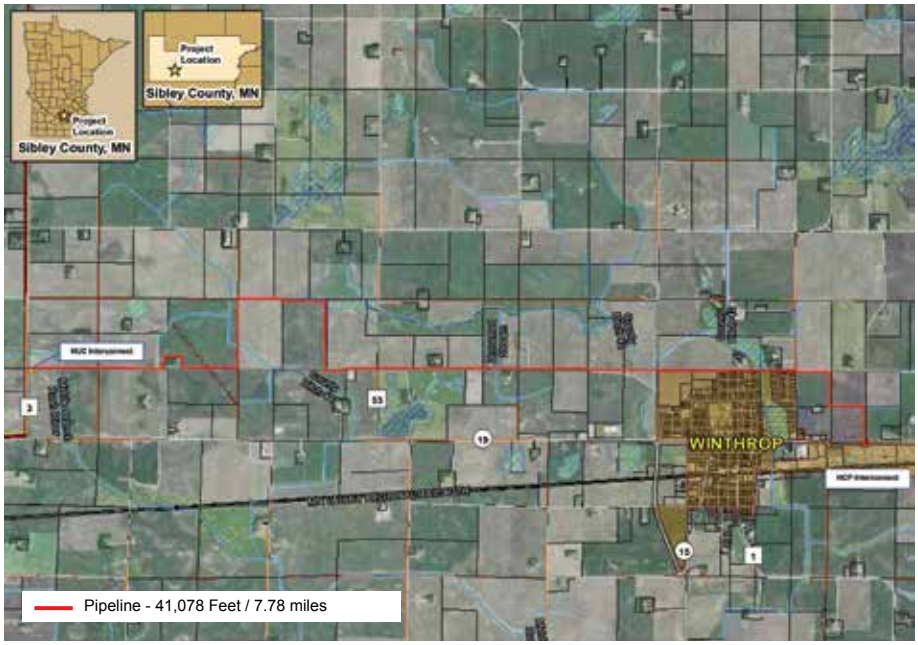
Sibley

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at www.npms.phmsa.dot.gov.

EMERGENCY RESPONSE PLANS

An Emergency Response Plan is developed for each pipeline facility to contain, control and mitigate the various types of emergency conditions/ situations that could occur at one of our facilities. For more information regarding Heartland Corn Products emergency response plans and procedures, contact us directly.

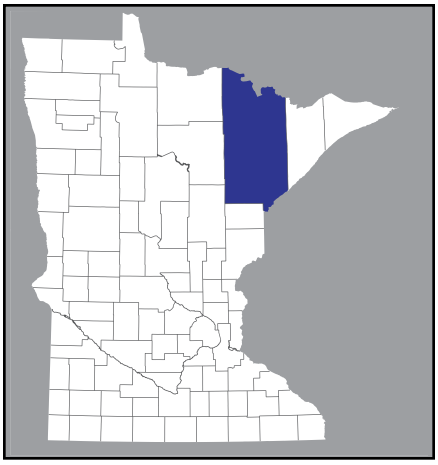


1902 Sixth Avenue East
Hibbing, MN 55746
Phone: (218) 262-7700
Fax: (218) 262-7702
Website: www.hpuc.com

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Hibbing Public Utilities is committed to public safety, protection of the environment, and operation of its facilities in compliance with all applicable rules and regulations. The Hibbing Public Utilities pipelines fall under the regulatory oversight of the Office of Pipeline safety in the U.S. Department of Transportation. Hibbing Public utilities is proud of its safety record and follows many regulations and procedures to monitor and ensure the integrity of its pipelines.

Visual inspections of Hibbing Public Utility pipeline right-of-way are conducted by vehicle surveillance on a regular basis. The right-of-way is a narrow strip of land reserved for the pipeline. Above ground marker signs are displayed along the right-of-way to alert the public and contractors to the existence of the pipeline.



Cathodic protection is a technology designed to protect steel pipelines from external corrosion through the use of an electrostatic current. The small electrical charge is applied to our steel pipelines, which have an eternal protective coating.

Hibbing Public Utilities public education program is designed to prevent third-party damage to its pipelines. Additionally, the company is a member of numerous “call-before-you-dig” programs or “one-call” systems across the Untied States, which are designed to help the public contractors and others identify the location of pipelines before excavation or digging projects to prevent damage to pipelines and protect the public. The leading cause of pipeline accidents is third-party damage caused by various types of digging and excavation activities.

Emergency preparedness and planning measures are in place at Hibbing Public Utilities in the event that a pipeline incident occurs. The company also works closely with local emergency response organizations to educate them regarding our pipelines and how to respond in the unlikely event of an emergency.

Pipelines are the most efficient and safest method by which to transport and deliver natural gas and they are inherently safer than other modes of transportation such as rail, barge and truck. While the amount of natural gas being used in the U.S. continues to increase dramatically, the industry’s safety performance in recent years has improved significantly and serious accidents are rare. Pipelines help ensure a plentiful supply of natural gas to heat homes and businesses and generate electricity. There are well over one million miles of natural gas and product pipelines in the U.S.

EMERGENCY CONTACT:
(218) 262-7700

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

St. Louis

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

225 Michigan Street SE
Hutchinson, MN 55350
Telephone: (320) 587-4746
Telephone: (320) 587-4745
Website: www.hutchinsonutilities.com

OPERATOR OVERVIEW

Hutchinson Utilities is a combination electric and natural gas municipal utility that provides natural gas to approximately 5,500 residential, commercial and industrial customers in the Hutchinson area. In addition, Hutchinson Utilities owns and operates a high-pressure natural gas transmission pipeline. This pipeline transports natural gas from Southern Minnesota, North to Hutchinson, suppling our power plants and distribution customers with natural gas. Hutchinson Utilities also serves various cities and industrial customers along the pipeline route.

EMERGENCY CONTACT:
(877) 593-3973

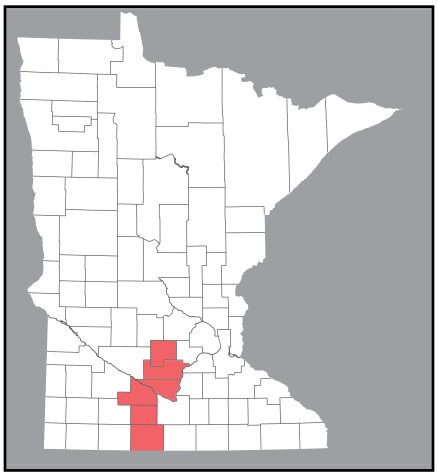
PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Brown	Nicollet
Martin	Sibley
McLeod	Watonwan

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.



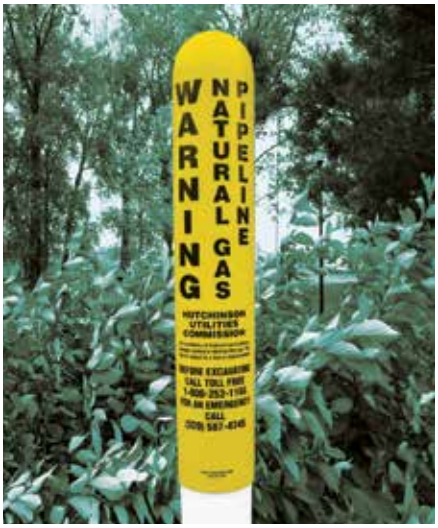
COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Hutchinson Utilities is committed to the protection of the public, it's employees, the environment and to the safe operation of its facilities in compliance with all applicable rules and regulations. The Utility's natural gas transmission pipeline and distribution system fall under the regulatory oversight of the Office of Pipeline Safety in the U.S. Department of Transportation.

Hutchinson Utilities regularly patrols the pipeline with a low flying helicopter to detect activities near the line. System conditions are monitored on a 24-hour basis by personnel in our System Control Center utilizing a computerized Supervisory Control and Data Acquisition (SCADA) system.

Emergency preparedness and planning measures are in place at Hutchinson Utilities in the unlikely event that a natural gas incident occurs. The Utilities also works closely with local emergency response agencies to educate them on how to respond in the unlikely event of an emergency.

Hutchinson Utilities is a member of Minnesota's "Gopher State One Call" program, which is designed to assist the public, excavation contractors and others in identifying the location of underground natural gas lines to prevent damage to Hutchinson Utilities' facilities and to protect the public. For more information about Hutchinson Utilities' transmission and distribution system contact the Utilities' Natural Gas Division at 320-587-4746 or visit www.hutchinsonutilities.com.



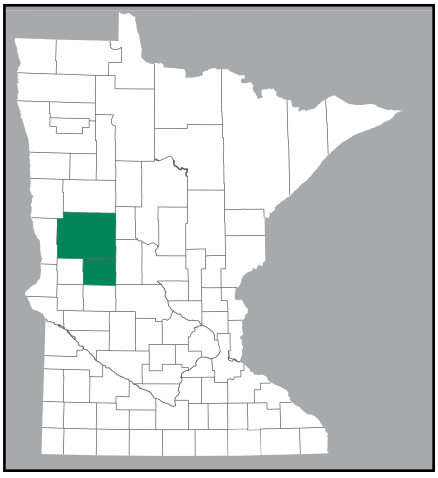
1401 South Broadway
Pelican Rapids, MN 56572
Phone: 800-552-7658
Website: www.lakeregionenergy.com

OPERATOR OVERVIEW

Lake Region Energy Services ("LRES") was organized for the purpose of developing, constructing, and operating a natural gas distribution system.

LRES is a wholly-owned subsidiary of Lake Region Electric Cooperative ("LREC"), a Minnesota cooperative association, organized for the purpose of distributing electricity in a service territory in Minnesota. LRES was organized for the purpose of providing an additional energy resource to rural areas and communities. LRES is committed to providing its customers with safe, reliable, affordable natural gas, and is constantly evaluating means to deliver innovative energy services. Pipeline sizes range from two to six inches in diameter.

LRES has partnered with Greater Minnesota Transmission, Inc. ("GMT") of Le Sueur, Minnesota, to meet the transmission component of the natural gas project.



COMMITMENT TO SAFETY, HEALTH AND ENVIRONMENT

Lake Region Energy Services is committed to public safety, protection of the environment and operation of its facilities in compliance with all applicable rules and regulations. We conduct periodic leak inspections and patrol for activities near pipelines that may have an impact on safety.

NATURAL GAS EMERGENCIES

If you suspect a natural gas leak, react like it's an emergency. Although rare, natural gas leaks can be dangerous and result in an explosion. **There is no charge for a leak investigation**.

Signs of a Leak

- Do you smell an unusual odor, like rotten egg?
- Do you hear blowing or hissing?
- Do you see unexplained dead or dying vegetation?
- Do you see bubbles coming from the ground-land or water?

Take Action

- Do not try to find or repair the leak
- Leave the area immediately and keep everyone away
- Do not start vehicles, turn on lights, or use telephones
- Call LRES at 888-295-8976 from a safe location
- If you hear gas hissing or blowing, call 911

EMERGENCY CONTACT:
(888) 295-8976

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Douglas	Otter Tail

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

ALWAYS CALL BEFORE YOU DIG

Buried utility lines could exist just about anywhere you dig. To prevent damage to underground utilities please call Gopher State One Call at 800-262-1166 or the "Call before you dig" hotline at 811. Report any damages to LRES immediately.

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

Lakes Community Cooperative

1458 State Hwy 200
Mahnomen, MN 56557
Phone: (888) 935-2281

OPERATOR OVERVIEW

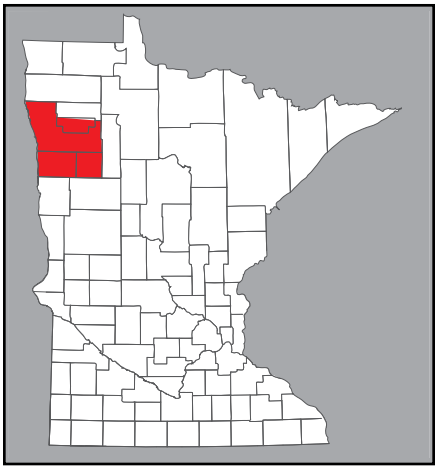
Lakes Community Cooperative is an energy cooperative providing natural gas distribution service to residential, commercial and agriculture customers in the towns of Mahnomen, Twin Valley, Fertile, Beltrami, Gary, Fisher, Waubun and Red Lake Falls. We also provide limited coverage to rural customers in the counties of Mahnomen, Norman, Polk and Red Lake. Our pipeline sizes are two, three or four inch depending on the location.

HOW WE RESPOND TO A LEAK OR A LINE HIT

In order to be prepared for a natural gas emergency, we will offer training to local emergency responders. When we receive notice of an emergency, we dispatch trained personnel to respond. We train to protect life, property and facilities.

SAFETY

Public safety is a top priority of Lakes Community Cooperative along with health and environmental protection. We strive to provide the highest level of safety to our communities through regular patrols, maintenance and upkeep, training of our personnel and communication with local emergency personnel.



We are part of a pipeline awareness program that raises awareness of how to handle emergencies and also raises awareness of pipeline safety.

Nearly all parts of a natural gas pipeline are below ground. Therefore, lines are marked in order to identify the operators of the pipeline and emergency contact information.

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

REMEMBER TO CALL FOR A LOCATE BEFORE YOU DIG

EMERGENCY CONTACT:
(888) 935-2281

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Mahnomen	Polk
Norman	Red Lake

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Magellan Pipeline Company, LP
Magellan Crude Oil Pipeline Company LP
Magellan Pipelines Holdings LP
Magellan Terminals Holdings LP
Magellan Operating Company, LLC

One Williams Center
Tulsa, OK 74172
(Headquarters) (800) 574-6671
(Local Toll Free) (800) 772-0480
Website: www.magellanlp.com

SYSTEM OVERVIEW

Name of operator:
Magellan Midstream Partners, L.P.

Type of system: Transmission

List of products transported in system: Butane, Diesel Fuel, Gasoline and Jet Fuel.

OPERATOR OVERVIEW

Magellan Midstream Partners, L.P., a wholly owned subsidiary of ONEOK, Inc., is principally engaged in the transportation, storage and distribution of refined products and crude oil. Magellan operates a 9,800 mile refined products pipeline system with 54 connected terminals as well as 25 independent terminals not connected to our pipeline system, two marine terminals (one of which is owned through joint venture) and a 2,200 mile crude oil pipeline system.

Our pipeline markers can be typically identified by the black and red bands at the top.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Magellan Midstream Partners, L.P. operates with a focus on safe, reliable, environmentally responsible, legally compliant and sustainable operations. Our pipelines are designed, installed, tested,operated, and maintained according to strict standards employed by our company, the pipeline industry and the federal government. Safety, honesty, responsibility, and efficiency are at the core of Magellan's business.

FREQUENTLY ASKED QUESTIONS

1. **How can an emergency responder or LEPC obtain maps of the pipeline?**

   Emergency responders and local planning/zoning authorities may obtain detailed maps of our system from field operations staff or contact us directly via email at: damageprevention@ magellanlp.com or call 888-945-2255. In addition, the National Pipeline Mapping System (www.npms.phsa.dot.gov) provides a list of pipeline operators in your community as well as the location of pipelines and other information.

2. **How will Magellan and response agencies work together during Pipeline Emergencies?**

   Local response agencies are expected to play a key role in the first few hours of a response, protecting the public, isolating the area and using local materials such as dirt or sand to help safely contain the event. Magellan personnel will join a Unified Command and can provide key response equipment such as air monitors, vacuum trucks, emergency spill contractors, heavy construction equipment and specialized command post contractors

EMERGENCY CONTACT:
(800) 720-2417

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Butane	1011	115
Diesel Fuel	1202/1993	128
Gasoline	1203	128
Jet Fuel	1863	128

MINNESOTA COUNTIES OF OPERATION:

Anoka	Meeker
Blue Earth	Olmsted
Carlton	Otter Tail
Carver	Pine
Chippewa	Pipestone
Chisago	Pope
Clay	Ramsey
Dakota	Renville
Douglas	Rice
Faribault	Scott
Freeborn	St. Louis
Goodhue	Steele
Grant	Swift
Hennepin	Wabasha
Kandiyohi	Waseca
Lincoln	Washington
Lyon	Wilkin
McLeod	Yellow Medicine

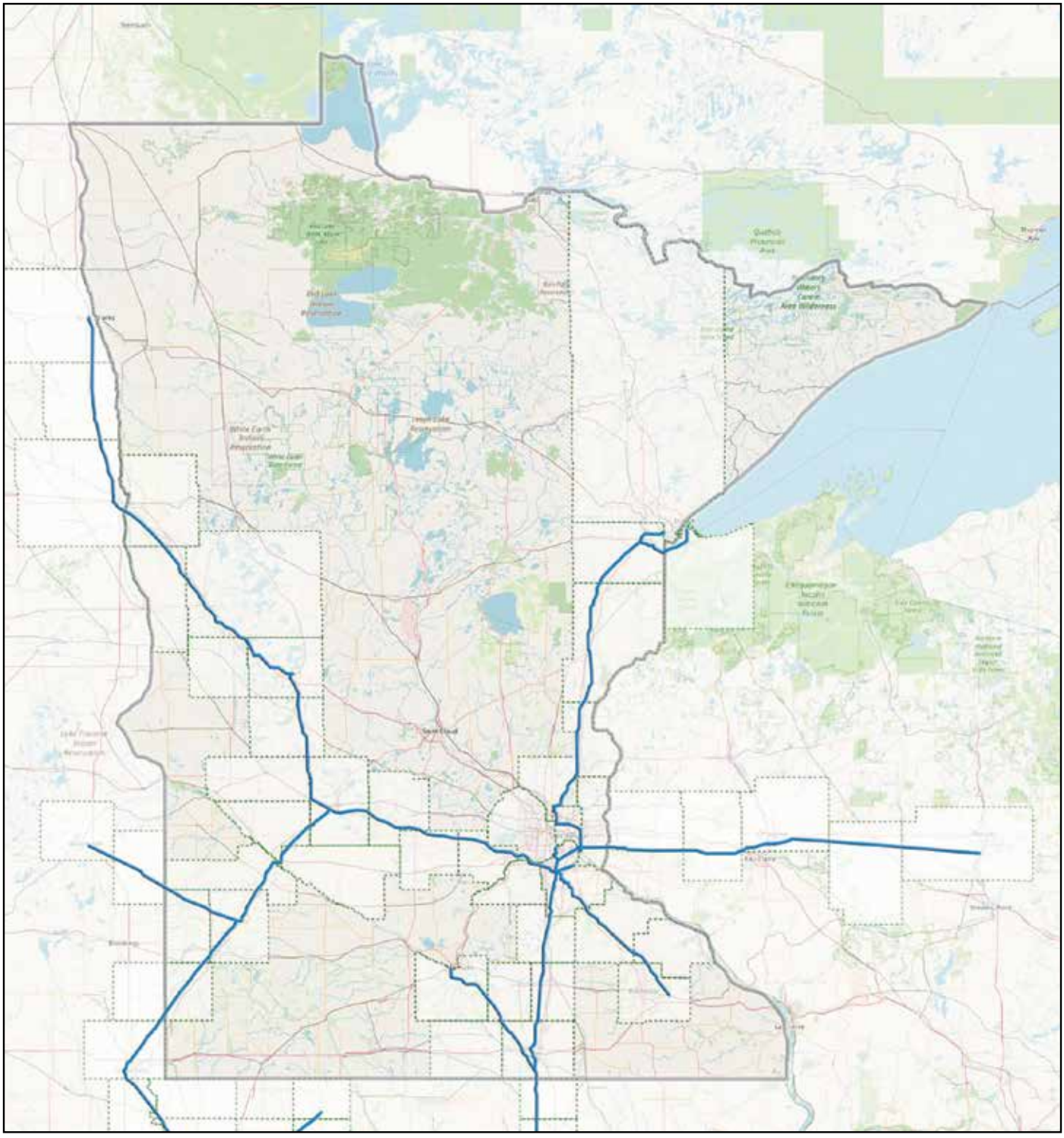
Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

3. **How can an emergency responder learn more about the company's official emergency plans?**

   If interested in learning more about our facility response plan, please contact your local Magellan field representative or contact Magellan Corporate directly via email at: damageprevention@ magellanlp.com.

4. **How can responders learn more about pipeline responding training opportunities?**

   Visit www.pipelineemergencies.com. or visit www.magellanlp.com for more information and additional resources.



Base map courtesy of openstreetmap.org

445 Minnesota Street
St. Paul, MN 55101-5147
Telephone: (651) 201-7230
Fax: (651) 296-9641
TTY: (651) 282-5555
Website: http://ops.dps.mn.gov.

MISSION STATEMENT

The mission of the Minnesota Office of Pipeline Safety (MNOPS) is to protect lives, property, and the environment through the implementation of a program of gas and hazardous liquid pipeline inspections, enforcement, accident and incident investigations, and education.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

MNOPS was created in 1987 under Minnesota Statute 299J and 299F. MNOPS is responsible for pipeline inspections, education and enforcement throughout the state. MNOPS also enforces Minnesota's One Call laws (MS216D) which apply to all public underground utility owners and excavators.

Minnesota has over 71,000 miles of pipelines with 9,956 of those operating as interstate pipelines. These pipelines carry a variety of natural gas and hazardous liquid products and range in size from ½ to 48 inches in diameter. There are 98 intrastate and 21 interstate companies that operate these pipeline systems. MNOPS received interstate agent authority from the US DOT Pipeline and Hazardous Material Safety Administration (PHMSA) to inspect interstate pipelines in 1991.

Our main office is located in St. Paul which includes a staff of 21, including inspectors and support staff. The State Fire Marshal acts as the Director of MNOPS and the Deputy Director oversees the daily operations. Two of our inspectors support our non-metro areas in Clearbrook (northwest MN) and Granite Falls (southwest MN).

Information on pipeline safety regulations, policies and educational activities can be obtained from our website at: http://ops.dps.mn.gov.

Please contact us directly if you have any questions. Pipeline emergencies are to be reported through the Minnesota Duty Officer. The MN Duty Officer can be reached 24/7/365.

EMERGENCY CONTACTS:

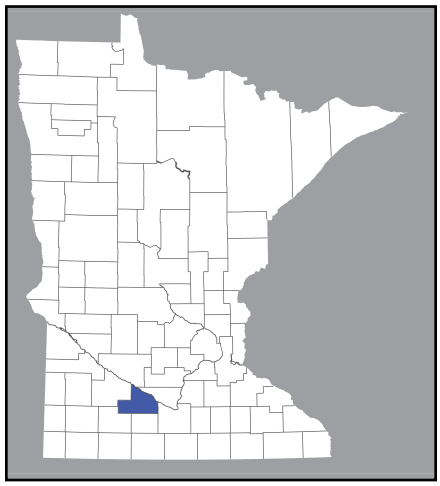
(Duty Officer Statewide)
(800) 422-0798
(Duty Officer Metro)
(651) 649-5451
(MN Office of Pipeline Safety)
(651) 201-7230

Public Utilities

310-1st North Street
New Ulm, MN 56073
Phone: (507) 359-8264
Fax: (507) 354-7318
Website: www.newulmmn.gov

OPERATOR OVERVIEW

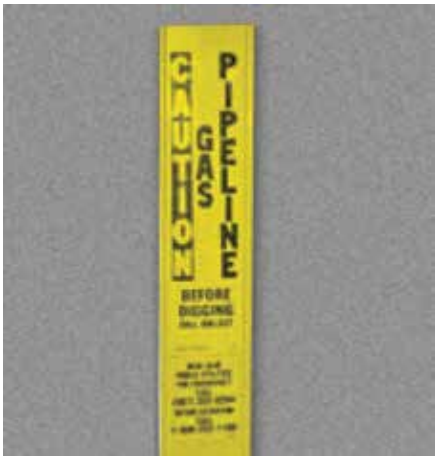
New Ulm Public Utilities serves customers within the City of New Ulm with natural gas. Natural gas is brought to New Ulm via an interconnect with Hutchinson Utilities' Pipeline that is served by the Northern Border Pipeline. New Ulm has another interconnect with Northern Natural Gas Pipeline that is used as a back-up. New Ulm Public Utilities serves 6098 natural gas customers through its distribution system that consists of 101 miles of mains and approximately 5565 gas service lines.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

New Ulm Public Utilities is committed to employee and public safety, protection of the environment, and operation of its facilities in compliance with all applicable rules and regulations. The company is proud of its safety record and follows regulations and procedures to monitor and ensure the integrity of its pipelines.

- Pipeline operating conditions are monitored 24 hours a day, 7 days a week. Emergency response personnel are on stand-by duty 24 hours a day, seven days a week.
- Above ground marker signs are displayed along the 250 psi pipeline right-of-way to alert the public and contractors to the existence of the pipeline.
- Leak surveys are conducted annually on the pipeline and servicelines
- Cathodic protection is a technology designed to protect pipelines from external corrosion and is used throughout our system to prevent leaks.
- New Ulm Public Utilities public education program is designed to prevent third-party damage to its pipelines. Additionally, the company is a member of Gopher State One Call Center that is Minnesota's "call-before-you-dig" system, which is designed to help the public, contractors, and others identify the location of pipelines before excavation or digging projects to prevent damage to pipelines and protect the public.
- Emergency preparedness and planning measures are in place at New Ulm Public Utilities in the event that a pipeline incident occurs. The company also works closely with local emergency response organizations to educate them regarding our pipelines and how to respond in the unlikely event of an emergency.



EMERGENCY CONTACT:
(877) 868-3636 or (507) 359-8264

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

Brown

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Pipelines are the most efficient and safest method by which to transport and deliver natural gas and they are inherently safer than other modes of transportation such as rail, barge and truck. While the amount of natural gas being used in the U.S. continues to increase dramatically, the industry's safety performance in recent years has improved significantly and serious accidents are rare. Pipelines help ensure a plentiful supply of natural gas to heat homes and businesses and generate electricity.

Northern Natural Gas
A BERKSHIRE HATHAWAY ENERGY COMPANY

1111 South 103rd Street
Omaha, NE 68124
Phone: 1-888-367-6671
Website: www.northernnaturalgas.com

Please share this important information with others in your organization

COMPANY PROFILE

Northern Natural Gas (Northern) is a subsidiary of Berkshire Hathaway Energy, based in Omaha, Nebraska, and operates an interstate natural gas high pressure, transmission pipeline system extending from Texas to the upper Midwest. The system includes over 14,000 miles of natural gas pipeline, capable of 5.8 billion cubic feet per day (Bcf/d) of market area capacity, plus 1.78 Bcf/d of field capacity. Northern has a total of five natural gas storage facilities, three of which are underground facilities and the other two are Liquefied Natural Gas (LNG) facilities. All five total 75 Bcf which includes 4 Bcf of liquefied natural gas. At times, Northern's pipelines may be odorized, please check with your Northern Natural Gas representative to learn more. Northern provides transportation and storage services to approximately 81 utilities and numerous end-use customers in the upper Midwest. Pipeline pressures can reach as high as 1,600 pounds per square inch gauge. Pipeline sizes range from 2 inches to 36 inches in diameter. The maximum potential impact radius (PIR) is 1,000 feet.

Call 811 before digging. A pipeline representative must be present when excavating within 25 feet of the pipeline.

HOW CAN YOU TELL WHERE A PIPELINE IS LOCATED?

Since natural gas pipelines are built underground, line markers are used to indicate the approximate location of the pipelines. However, these markers do not indicate how deep the pipeline is buried. Also the route can take twists and turns between markers. It is a crime for any person to deliberately damage, destroy, or remove any pipeline sign or right-of-way marker. Never assume the pipeline lies in a straight line. Always call your state One Call Center before digging. Pipelines can lose cover by natural erosion or other forces. Certain types of deep farming activities require advanced notification before disturbing the soil. Some examples are: chisel plowing, waterway work and drain tiling. If you observe indications that a pipeline is shallow, exposed or damaged, immediately contact the Northern Natural Gas 24-hour Operations Communication Center at 1-888-367-6671. Call 811 or visit NPMS at: www.npms.phmsa.dot.gov to learn more.

WHO SHOULD I CALL IF I DETECT A GAS LEAK IN MY HOME?

If you suspect a natural gas leak inside your home or on your service line, immediately evacuate and contact 911 and your local gas company from a safe location. Northern operates the pipeline that delivers gas to local distribution companies. The distribution companies then deliver the gas to homes and businesses.

IF YOU ARE A PUBLIC SAFETY OFFICIAL:

A public safety official must take whatever steps are necessary to safeguard the public in the event of a pipeline emergency. The following points are offered as a guide.

- Notify the appropriate pipeline company. Report the type (leak, rupture, fire) and the location of the emergency. If it is a Northern Natural Gas pipeline, call the toll-free 24-hour Operations Communication Center: 1-888-367-6671.
- Establish a safety zone around the emergency site and control access.
- Use initial evacuation of 1,320 feet (1/4 mile) until advised further.
- If gas is not burning, avoid doing anything that may ignite it. Be aware of wind direction and remove potential ignition sources.

While emergency response agencies are doing their part, Northern employees will do what needs to be done to protect lives and property.

- They will first protect people.
- If a fire does not already exist, they will remove all sources of ignition.
- They will help people in distress.
- They will eliminate the natural gas source. If it is possible to do so from the location of the emergency, they will. In many cases, the natural gas must be shut off at a remote location. It is important for you to know that Northern employees are responsible for operating the valves that isolate the affected facilities.
- Is your group or agency interested in a presentation or additional information? Call the Northern emergency number at 1-888-367-6671 and ask to establish a public education liaison. Together we will determine the appropriate Northern field location nearest you and then provide you a means to contact Northern's local representative for more details.
- For more information visit www.pipelineawareness.org/training

EMERGENCY GAS CONTROL:
(888) 367-6671

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Anoka	Kanabec	Renville
Benton	Kandiyohi	Rice
Blue Earth	Lac Qui Parle	Rock
Brown	Lake	Scott
Carlton	Le Sueur	Sherburne
Carver	Lincoln	Sibley
Chisago	Lyon	St. Louis
Cottonwood	Martin	Stearns
Crow Wing	McLeod	Steele
Dakota	Meeker	Stevens
Dodge	Mille Lacs	Swift
Douglas	Morrison	Todd
Faribault	Mower	Wabasha
Fillmore	Murray	Waseca
Freeborn	Nicollet	Washington
Goodhue	Nobles	Watonwan
Hennepin	Olmsted	Winona
Houston	Pine	Wright
Isanti	Pipestone	Yellow Medicine
Itasca	Pope	
Jackson	Redwood	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

www.call811.com

NORTHWEST GAS

Northwest Gas (South)
314 Main Street NE
Mapleton, MN 56065
Telephone: (507) 524-4103
Website: www.nwngas.com

Northwest Gas (North)
1608 NW 4th Street
Grand Rapids, MN 55744
Telephone: (218) 326-3495
Website: www.nwgas.com

OPERATOR OVERVIEW

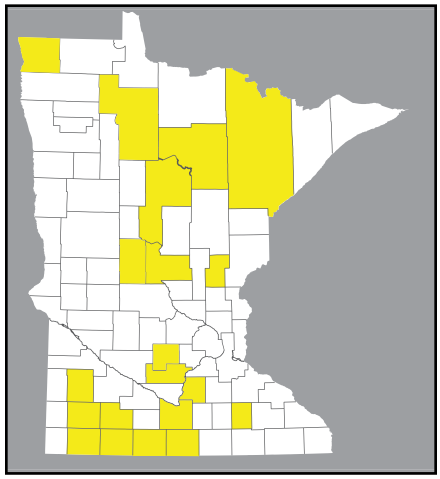
Northwest Gas owns and operates 300 miles of gas distribution systems (primarily natural gas, some propane) serving 4,995 customers. In addition to these company-owned systems, Northwest Gas contracts to operate and maintain 41.5 miles of transmission pipeline, and 110 miles of gas distribution pipeline (again, primarily natural gas with some propane) serving 2,220 customers for municipal and state government owners as well as 50 miles of pipeline for large end-users. Northwest Gas built its first gas distribution system in 1964. Pressure and Diameter of pipe vary according to system. Please contact us for specific system information.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Northwest Gas is committed to protecting people first then property.

Emergency preparedness and planning measures are in place at Northwest Gas in the event that a gas emergency occurs. Company personnel are available 24/7 for emergency response in all areas of operation. The Company also works closely with emergency response organizations to provide education regarding its facilities and appropriate emergency response actions.

Pipelines are the safest, most efficient means by which to transport gas, easily outperforming railcars, barges and trucks. Pipelines reliably deliver gas to America's homes, businesses and heavy industry. Continuing improvements in equipment and operating practices have driven the industry's already-excellent safety performance higher year after year. Because of this situation serious accidents are rare even as gas use in the United States increases.



CONTACTS

Kim Wagner
Northwest Gas
1608 NW 4th Street
Grand Rapids, MN 55744
Phone: (218) 326-3495
Fax: (218) 999-5495
Cell: (218) 244-3364
Email: kim@nwgas.com

Rachel Sorrentino
Northwest Gas
1608 NW 4th Street
Grand Rapids, MN 55744
Cell: 651-341-2250
Email: rachel@nwgas.com

EMERGENCY CONTACT:
NORTH (800) 620-1748
SOUTH (800) 367-6964

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115
Propane	1075/1978	115

MINNESOTA
COUNTIES OF OPERATION:

North:

Beltrami	Morrison
Cass	St. Louis
Itasca	Todd
Kittson	

South:

Blue Earth	Lyon
Cottonwood	Martin
Dodge	McLeod
Faribault	Murray
Jackson	Nobles
Kanabec	Pine
Le Sueur	Sibley

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

NuStar Pipeline Operating Partnership L.P.

NuStar Energy - Central East Region
7340 W. 21st North, Suite 200
Wichita, KS 67205
Phone: 316-773-9000
PublicAwarenessCE@nustarenergy.com
Website: www.nustarenergy.com

ABOUT NUSTAR PIPELINE OPERATING PARTNERSHIP L.P.

The goal of the NuStar Energy Pipeline Public Awareness Program is to enhance safety and environmental protection through increased public awareness and knowledge. Public awareness programs should raise the awareness of the affected public and key stakeholder audiences of the presence of pipelines in their communities and increase their understanding of the role of pipelines in transporting energy.

NuStar Pipeline Operating Partnership L.P. is a subsidiary of NuStar Energy L.P. Our business unit consists of pipeline systems, ranging between 3” to 16” in diameter, that transports refined petroleum products, including gasoline, diesel, and propane throughout Kansas, Nebraska, Iowa, South Dakota, North Dakota, and Minnesota. We also operate an anhydrous ammonia pipeline system in Louisiana, Arkansas, Missouri, Illinois, Indian, Iowa and Nebraska ranging between 3” to 10” in diameter. Anhydrous ammonia is primarily used as agricultural fertilizer and used as a feedstock to a number of industrial applications.

Please read and keep these important safety messages located in the brochure and company profile provided in the event you need to reference them in the future.

Contact us for more information about our Integrity Management Program or Emergency Response Plan.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

At NuStar, the health and safety of our personnel, customers, and neighbors and the protection of the environment are core business values. NuStar is committed to achieving health, safety and environmental (HSE) excellence throughout the organization. NuStar emphasizes its HSE commitment through internal audits, public awareness, damage prevention, pipelines integrity management, emergency response preparedness, and other programs. In addition, most of NuStar’s pipelines are operated via satellite communication systems from a central control room located in San Antonio, TX. This control center is equipped with state-of-the-art computer systems designed to continuously monitor real-time operational data, operate equipment associated with the delivery of crude oil, refined products, and anhydrous ammonia, and control safety measures to ensure smooth and safe operation of our pipelines.

EMERGENCY CONTACT:
(800) 759-0033

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Diesel Fuel	1202/1993	128
Gasoline	1203	128
Jet Fuel	1863	128

MINNESOTA COUNTIES OF OPERATION:

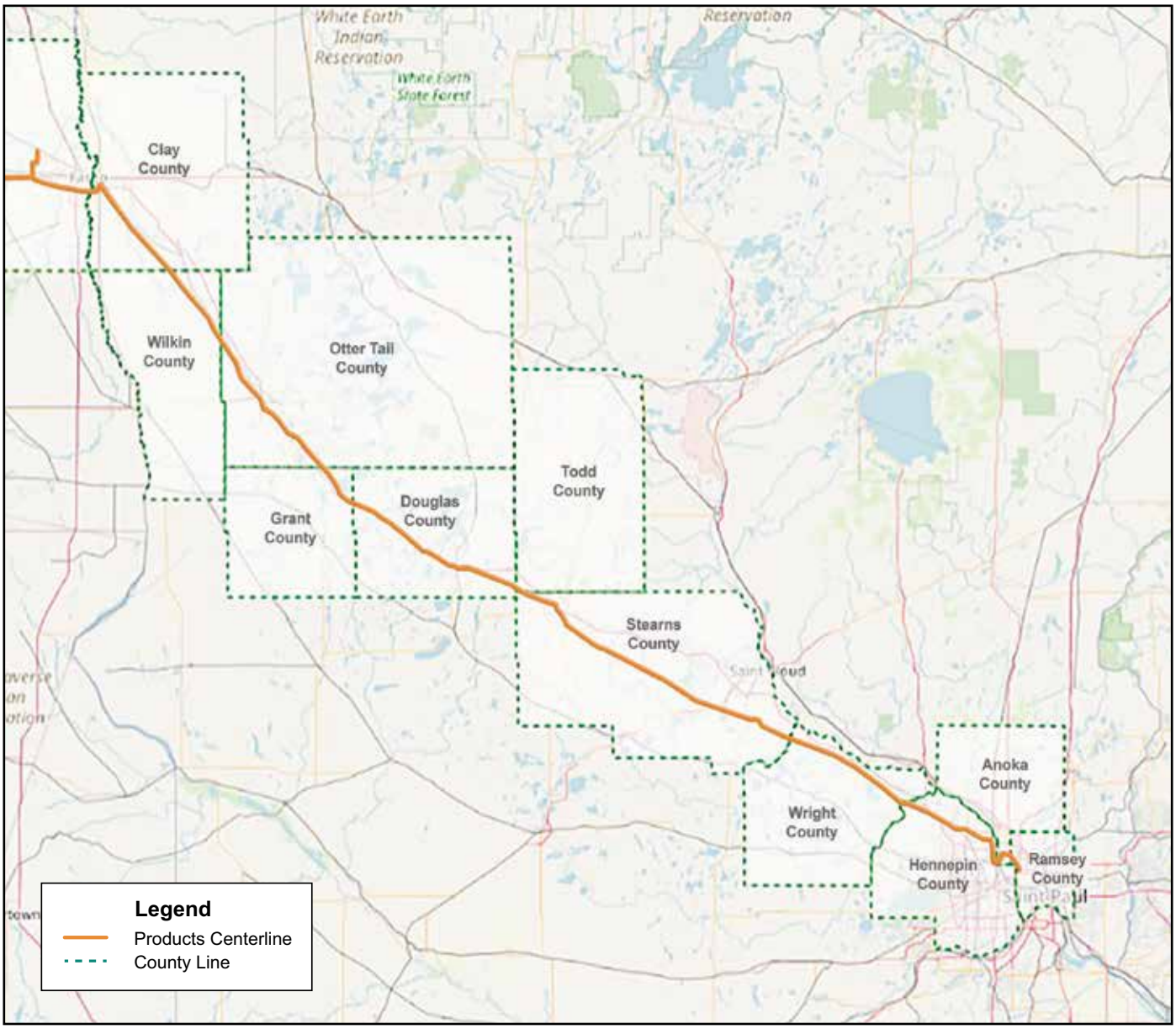
Anoka	Ramsey
Clay	Stearns
Douglas	Todd
Grant	Wilkin
Hennepin	Wright
Otter Tail	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

ERP™
EMERGENCY RESPONSE PORTAL

BE PREPARED

Please visit Emergency Response Portal to register for access to more information about NuStar’s Emergency Response Plan including how to contact us directly from the site. If you are already registered, you will receive email notifications when there are additional resources in your area of jurisdiction.



Base map courtesy of openstreetmap.org

MEC Holdings, LLC
1 Fazio Lane
Mankato, MN 56001
Website: www.onwardenergy.com

OPERATOR OVERVIEW

Onward Energy is an independent power producer with offices in New York City, Denver, and Charlotte. Onward consists of 43 wind, solar, and natural gas fired generation projects operating in 16 states and comprising over 4 GW. Onward Energy & PSI operate a 4-mile natural gas transmission pipeline in Blue Earth County. This 20-inch steel pipeline provides fuel to the Mankato Energy Center. Information about the transmission pipelines operating in your community can be accessed online at npms.phmsa.dot.gov, courtesy of the National Pipeline Mapping System (NPMS).

WHAT ARE THE SIGNS OF A NATURAL GAS PIPELINE LEAK?

- Blowing or hissing sound
- Dust blowing from a hole in the ground
- Continuous bubbling in wet or flooded areas
- Gaseous or hydrocarbon odor
- Dead or discolored vegetation in a green area
- Flames, if a leak has ignited

WHAT SHOULD I DO IF I SUSPECT A PIPELINE LEAK?

Your personal safety should be your first concern:

- Evacuate the area and prevent anyone from entering
- Abandon any equipment being used near the area
- Avoid any open flames
- Avoid introducing any sources of ignition to the area (such as cell phones, pagers, 2-way radios)
- Do not start/turn off motor vehicles/ electrical equipment
- Call 911 or contact local fire or law enforcement
- Notify the pipeline company
- Do not attempt to extinguish a natural gas fire
- Do not attempt to operate any pipeline valves

PIPELINE SAFETY

System failures occur infrequently along the nation's network of interstate natural gas pipeline facilities, and many of these are caused by damage from others digging near the pipeline. We watch for unauthorized digging, but we request your help to notify us.

EMERGENCY CONTACT:
(507) 299-2301 (Primary)
(507) 385-7816 (Secondary)

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

Blue Earth

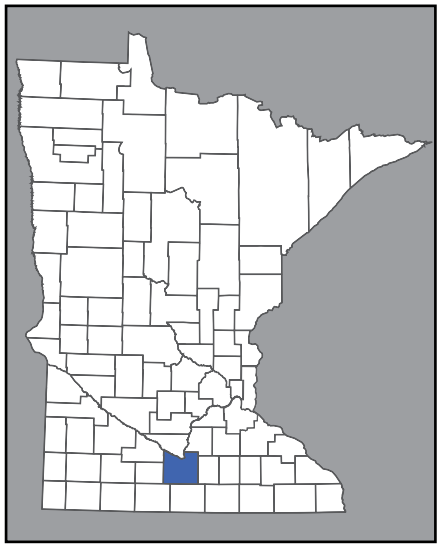
Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

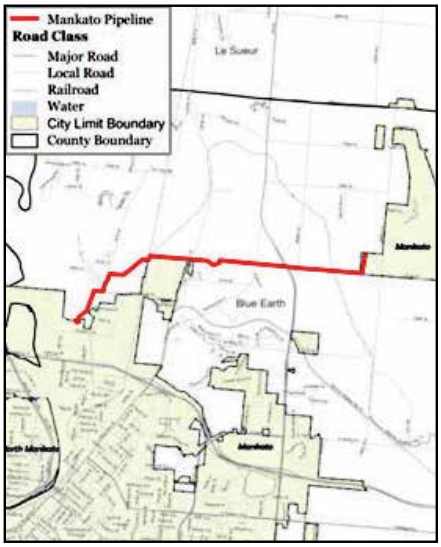
ALWAYS CALL 811 BEFORE YOU DIG!

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

PIPELINE LOCATION AND MARKERS

Pipeline markers are used to indicate the approximate location of a natural gas pipeline and to provide contact information. Aerial patrol planes also use the markers to identify the pipeline route. Markers should never be removed or relocated by anyone other than a pipeline operator.

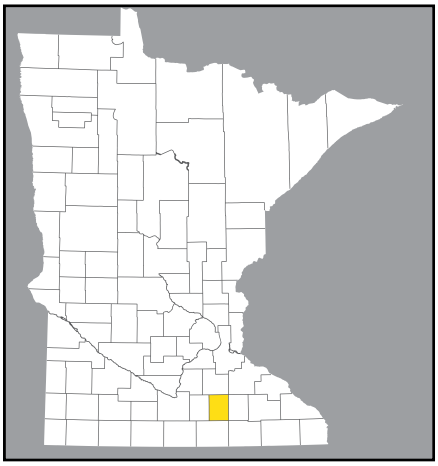




208 S. Walnut Avenue
P.O. Box 800
Owatonna, MN 55060
Telephone: (507) 451-2480
Fax: (507) 451-3695
Website: www.owatonnautilities.com

OPERATOR OVERVIEW

Owatonna Public Utilities (OPU) is a municipal utility company serving the city of Owatonna, MN and a small area outside the city limits. OPU serves approximately 10,493 natural gas, 13,345 electric and 9,850 water customers throughout its service territory. The company's primary focus for natural gas is providing customers safe and reliable gas service through its (5-50 psig) distribution system. OPU also owns and maintains two feeder lines operating at higher pressure (285 psig) to supply the distribution system.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Managing and maintaining the integrity of the natural gas distribution pipeline system, without adverse effects on the public, employees and the environment is the company's primary goal.

Owatonna Public Utilities commitment and dedication is in keeping our employees, customers and community safe through training, education and public awareness.

To prevent incidents and to ensure the public knows where our underground lines are located, OPU participates in and is actively involved in the Gopher State One Call system. By focusing on safety, we can better prevent accidents and injuries. Qualified crews and contractors have received extensive training on emergency response and are available 24 hours a day, seven days a week. OPU also maintains a supply of the necessary gas materials, tools and equipment so we can promptly respond to natural gas emergencies. As a natural gas, electric and water utility we will operate in a manner to reduce the overall risk and harm to human health, safety and welfare in the city of Owatonna while preserving the environment. Owatonna Public Utilities is continuously researching and seeking out new technologies in pipeline design, construction, inspection and operations to provide for the safe, cost-effective and secure delivery of natural gas.

Through periodic assessments, OPU ensures compliance with Pipeline Safety Standards, environmental regulations, and internal policies and procedures.

EMERGENCY CONTACT:
(507) 451-1616

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

Steele

NOTE: The OPU gas service territory is located within a maximum of a 5-mile radius of the City of Owatonna corporate limits. The exact service territory limits can be obtained from OPU by contacting their engineering department at 507-451-2480.

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

Paul Bunyan Natural Gas
P.O. Box 221
Deer River, MN 56636
Phone: (218) 547-4607
Email: info.pbng@gmail.com
Website: www.pbnaturalgas.com

OPERATOR OVERVIEW

Paul Bunyan Natural Gas, LLC is a natural gas distribution company which was formed in 2020 to bring natural gas service to the residents and businesses within and around the City of Walker, MN with the potential to expand to serve other neighboring towns.

Natural gas is delivered to Paul Bunyan Natural Gas several miles north of Walker and is then piped to customer service lines in mains having nominal (pipe size) diameters of 6" down to 2", depending on capacity requirements for each segment of main. Customer service lines vary in diameter from ½" to 2", again depending on capacity requirements.

This distribution system currently operates at 60 psi and has been designed and tested to operate safely at 80 psi when that becomes necessary due to system load growth

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Pipelines provide the safest, most reliable and environmentally friendly means of delivering gas to customers. At Paul Bunyan Natural Gas protection of the safety of both people and property is a requirement. Emergency response measures are in place at Paul Bunyan Natural Gas in the event that a gas emergency occurs. Personnel are available 24/7/365 to provide timely emergency response. Paul Bunyan Natural Gas also works closely with emergency responders to provide education regarding its facilities and appropriate emergency response actions.

WHAT ARE THE SIGNS OF A NATURAL GAS PIPELINE LEAK?

- Blowing or hissing sound
- Dust blowing from a hole in the ground
- Continuous bubbling in wet or flooded areas
- Gaseous or hydrocarbon odor
- Dead or discolored vegetation in a green area
- Flames, if a leak has ignited

WHAT SHOULD I DO IF I SUSPECT A PIPELINE LEAK?

Your personal safety should be your first concern:

- Evacuate the area and prevent anyone from entering
- Abandon any equipment being used near the area
- Avoid any open flames
- Avoid introducing any sources of ignition to the area (such as cell phones, pagers, 2-way radios)
- Do not start/turn off motor vehicles/ electrical equipment
- Call 911 or contact local fire or law enforcement
- Notify the pipeline company
- Do not attempt to extinguish a natural gas fire
- Do not attempt to operate any pipeline valves

PIPELINE LOCATION AND MARKERS

Pipeline markers are used to indicate the approximate location of a natural gas pipeline and to provide contact information. Aerial patrol planes also use the markers to identify the pipeline route. Markers should never be removed or relocated by anyone other than a pipeline operator.

EMERGENCY CONTACT:
(888) 501-7845

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Cass

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at www.npms.phmsa.dot.gov.

CONTACTS

Kim Wagner
Northwest Gas
1608 NW 4th Street
Grand Rapids, MN 55744
Phone: (218) 326-3495
Fax: (218) 999-5495
Cell: (218) 244-3364
Email: kim@nwgas.com

Rachel Sorrentino
Northwest Gas
1608 NW 4th Street
Grand Rapids, MN 55744
Phone: (218) 326-3495
Fax: (218) 999-5495
Cell: (651) 341-2250
E-mail: rachel@nwgas.com

Pembina U.S.
1300 Post Oak Blvd. Suite 1050
Houston, TX 77056
Toll Free: 1-888-428-3222
Website: www.pembina.com

OPERATOR OVERVIEW

Pembina Cochin LLC is the operator of the Cochin Pipeline System. Pembina Cochin LLC is a subsidiary of Pembina U.S. Corporation, which is owned by Pembina Pipeline Corporation. Pembina is a leading North American transportation and midstream service provider. For over 65 years, we have been safely and reliably connecting oil, natural gas, and natural gas liquids production to markets that need it. Pembina owns an integrated system of pipelines that transport various hydrocarbon liquids and natural gas products. We also own gas gathering and processing facilities, and an oil and natural gas liquids infrastructure and logistics business.

Incident Action Plan (Emergency Response Plan)

- Protect people first, property second
- Isolate area and deny entry
- Determine if atmosphere is safe
- Establish hazard control zones
- Evacuate if necessary
- Notify Pembina
- Control Ignition Sources
- If ignited, allow to self-extinguish
- Contain and control secondary fires

Pembina practices the National Incident Management System (NIMS) and will integrate into the Incident Command System (ICS) in an emergency. In the unlikely event that a leak should occur, Pembina will dispatch our pipeline maintenance crews (located at strategic points along the pipeline) to the site. Once we have ensured the safety of our neighbors, employees, and contractors and the immediate dangers have been controlled, the pipeline is repaired and any damage to the surrounding area is restored.

Pipeline Unique Characteristics

The Cochin Pipeline System is a 1,561-mile, 12-inch pipeline. In 2019, Pembina acquired ownership of the pipeline from Kinder Morgan. The pipeline transports condensate from Fair Oaks, IN to Fort Saskatchewan, Alberta Canada.

- 1,000 psig Operating pressure
- Automated pipeline block valves
- Pump stations are located approximately every 60 miles

Pipeline Monitoring

Pembina monitors the Cochin Pipeline on a 24-hour basis from the computer assisted control system.

Pipeline Markers

To ensure everyone knows the location of Pembina's pipelines, we place pipeline markers in high traffic areas such as road and rail way crossings. We place them near but not necessarily on top of the pipeline. It is important to remember that markers may not tell you the exact location, route, depth or number of pipelines.

Always Call Before You Dig

Before starting any work near a pipeline, a locate request to your local One-Call Center is required. The One-Call Center will notify owners of the buried infrastructure in the area who will send out a company representative to locate and mark the facilities using paint, flags or other marks. It is important you don't start work until the pipelines are marked.

EMERGENCY CONTACT (24/7):
(800) 360-4706

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gasoline (Petroleum Distillate)	1268	128
Truck Terminal Product (Propane)	1075	115

MINNESOTA COUNTIES OF OPERATION:

Blue Earth	Renville
Chippewa	Sibley
Freeborn	Stevens
Kandiyohi	Swift
Le Sueur	Traverse
Mower	Waseca
Nicollet	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

National Pipeline Mapping System

The federal government provides maps that show the approximate location of transmission pipelines in your community through the National Pipeline Mapping System at www.npms.phmsa.dot.gov. Safety officials can access additional information and download electronic files to import into emergency preparedness GIS mapping systems. As with pipeline markers, the map will show the approximate location of the pipeline only. A one call is required.

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

6750 West Loop South, Ste 748
Bellaire, TX 77401
Website: www.pfcmidstream.com

Founded in 1989, Petroleum Fuels Company headquartered in Bellaire, TX is one of Texas's fastest growing privately held oil and gas companies.

WHAT ARE THE SIGNS OF A NATURAL GAS PIPELINE LEAK?

- Blowing or hissing sound
- Dust blowing from a hole in the ground
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- Flames, if a leak has ignited

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Your personal safety should be your first concern:

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- Avoid any open flames
- Avoid introducing any sources of ignition to the area (such as cell phones, pagers, 2-way radios)
- Do not start/turn off motor vehicles/ electrical equipment
- Call 911 or contact local fire or law enforcement
- Notify the pipeline company
- Do not attempt to extinguish a natural gas fire
- Do not attempt to operate any pipeline valves

PIPELINE SAFETY

System failures occur infrequently along the nation's network of interstate natural gas pipeline facilities, and many of these are caused by damage from others digging near the pipeline. We watch for unauthorized digging, but we request your help too.

We participate in One-Call Centers and strongly encourage those who are going to dig to call their state One-Call Center or the 811 "Call before you dig" hotline to allow pipeline companies and owners of other buried utilities a chance to mark the underground facilities in the area before digging begins.

PIPELINE LOCATION AND MARKERS

Pipeline markers (see below) like these are used to indicate the approximate location of a natural gas pipeline and to provide contact information. Aerial patrol planes also use the markers to identify the pipeline route. Markers should never be removed or relocated by anyone other than a pipeline operator.

To find out where Petroleum Fuels pipelines are located in your area contact a Petroleum Fuels representative.

You can also find out where other companies' pipelines are in your area by going to the National Pipeline Mapping System website at www.npms.phmsa.dot.gov.

EMERGENCY CONTACT:
1-800-275-6549

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

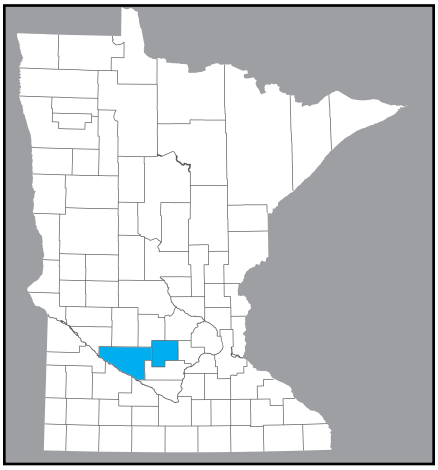
Dakota

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

106 Main Street
Bird Island, MN 55310
Office: (320) 365-4400
Fax: (320) 365-4003
Website: www.sheehansgas.com

OPERATOR OVERVIEW

Sheehan's Gas Company is a three generation family owned business which owns and operates natural gas distribution systems in three local communities, serving approximately 1100 natural gas customers.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Sheehan's Gas Company's mission is to provide quality service by stressing safety, commitment and success for our customers, our employees and our community. We will accomplish continual improvement through education and ethical business practices with an aim toward creating and maintaining long-term customer relations.

EMERGENCY CONTACT:
(800) 243-3047

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

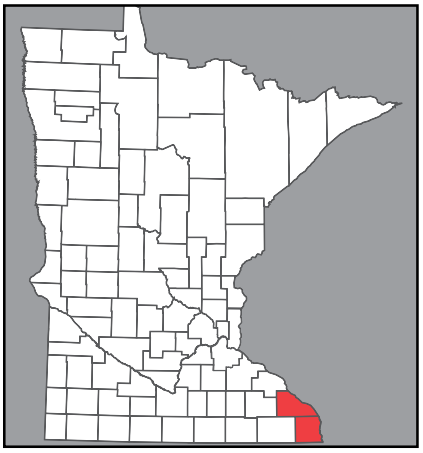
McLeod Renville

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

24/7/365 Emergency Service
1-800-PROPANE
(1-800-776-7263)
Website: www.suburbanpropane.com

OPERATOR OVERVIEW

Suburban Propane is a nationwide marketer and distributor of a diverse array of energy-related products. In Minnesota, we specialize in retail propane sales, installation, and service. For more information about Suburban and propane safety, visit **www.suburbanpropane.com**.



EMERGENCY CONTACT:
(800) PROPANE
(800) 776-7263

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Propane	1075/1978	115

MINNESOTA
COUNTIES OF OPERATION:

Houston
Winona

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

MISSION STATEMENT

Our Mission Statement defines our business philosophy and primary business goals. It is the mission of Suburban Propane to:

"Serve our customers, employees and communities by maintaining the highest level of safety standards, ethical principles, satisfaction and total value in all that we do."

For additional information, please contact:

Matt Inglett
610 West City Hwy 16
West Salem, WI 54669
(608) 781-8070

Ed Moreno
610 West City Hwy 16
West Salem, WI 54669
(608) 345-3186

705 East 4th Street
PO Box 461
Winthrop, MN 55396
Website: www.ufcmn.com/United-Natural-Gas

COMPANY PROFILE

United Natural Gas,LLC ('UNG') is a Local Natural Gas Distribution Company owned and operated by United Farmers Cooperative. United Farmers Cooperative ("UFC") is an agricultural cooperative located in Winthrop, Minnesota. Any agricultural producer who does at least $10,000 of business with UFC annually is a voting member of UFC. Although UNG is a separate business entity, it is wholly owned by UFC and for membership purposes, a qualifying patron of UNG is deemed a member of UFC. Therefore, eligible UNG patrons are voting members in UFC and they possess the same governance rights as if they did business directly with UFC. In many cases, UNG patrons may already be members because, assuming they are agricultural producers, they may already purchase feed, agronomy products, refined petroleum products or L.P. Gas from UFC. We service the communities of Courtland, Lafayette, Klossner and the Lower Sioux Indian Community which are located in the counties of Nicollet, Brown and Redwood in Minnesota. Our distribution lines are made up of 6", 4", 2" and 1" HDPE pipe and service approximately 500 customers throughout the above listed areas. United Natural Gas can be reached at 507-647-6602 or at ufcmn.com.

EMERGENCY CONTACT:
(888) 832-5734 or
(507) 647-6602

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

MINNESOTA
COUNTIES OF OPERATION:

Nicollet
Brown
Redwood

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

United Natural Gas is committed to public safety, protection of the environment and to the operation of all facilities under its control in full compliance with all applicable rules and regulations.

Emergency preparedness and planning measures are in place at United Natural Gas in the event that a gas emergency occurs. Company personnel are available 24/7 for emergency response in all areas of operation.

The Company also works closely with emergency response organizations to provide education regarding its facilities and appropriate emergency response actions.

Pipelines are the safest, most efficient means by which to transport gas, easily outperforming railcars, barges and trucks. Pipelines reliably deliver gas to America's homes, businesses and heavy industry. Continuing improvements in equipment and operating practices have driven the industry's already-excellent safety performance higher year after year. Because of this situation serious accidents are rare even as gas use in the United States increases.

HOW CAN YOU TELL WHERE A PIPELINE IS LOCATED?

Since natural gas pipelines are built under ground, line markers are used to indicate the approximate location of the pipelines. However, these markers do not indicate how deep the pipeline is buried. Also the route can take twists and turns between markers. It is a crime for any person to deliberately damage, destroy, or remove any pipeline sign or right-of-way marker. Never assume the pipeline lies in a straight line. Always call your state One Call Center before digging.

618 Second Street South
Virginia, MN 55792
Phone: (218)748-7540
Website: www.vpuc.com

ABOUT CITY OF VIRGINIA PUBLIC UTILITIES

City of Virginia Department of Public Utilities (VDPU) is based in Virginia, Minnesota and operates the city's natural gas distribution system. The system includes 53 miles of natural gas distribution pipeline servicing approximately 2300 customers. The distribution pipeline is serviced from the Town Border Station located on County Highway 7 in Mountain Iron, Minnesota and operates at a maximum pressure of 50 psi.

Call 811 before you dig
www.call811.com

WHAT DOES VDPU DO IF A LEAK OCCURS?

While emergency response personnel are doing their part, our employees will do what needs to be done to protect lives, property and the environment.

- Our employees will protect people from injury by evacuating all persons from the danger zone.
- If a fire does not already exist, they will remove any source of ignition.
- They will eliminate the natural gas source.
- For more pipeline safety information visit: http://holnaturalgas.com/safety-information.html

EMERGENCY CONTACT:
(218) 748-7540

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Natural Gas	1971	115

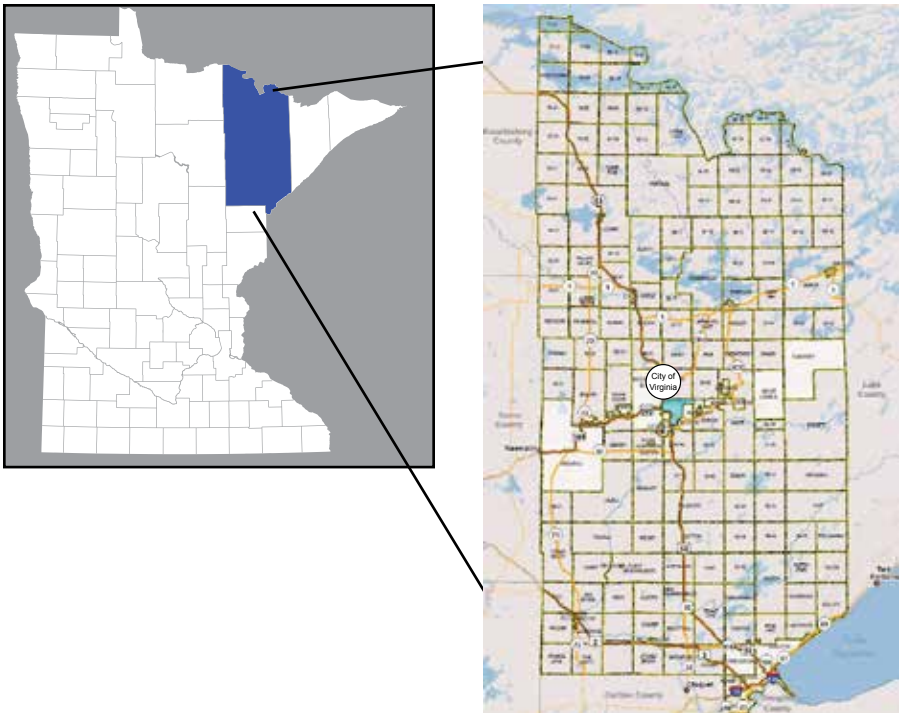
MINNESOTA
COUNTIES OF OPERATION:

St. Louis

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

PRODUCTS TRANSPORTED

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



Headquarters
2010 Montana Avenue
Glendive, MT 59330
Phone: 406-359-7200
Website: www.wbienergy.com

ABOUT WBI ENERGY TRANSMISSION

WBI Energy Transmission operates a 16" steel natural gas pipeline from Mapleton ND to an interconnect with Viking Gas Transmission Company near Felton MN. As a safety precaution, the natural gas is odorized as it enters our system. The maximum operating pressure of our pipeline is 1480 psi. Our gas control center monitors the system 24 hours a day and can be reached at 1-888-859-7291.

EMERGENCY CONTACT:
(888) 859-7291

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:		
Natural Gas	1971	115

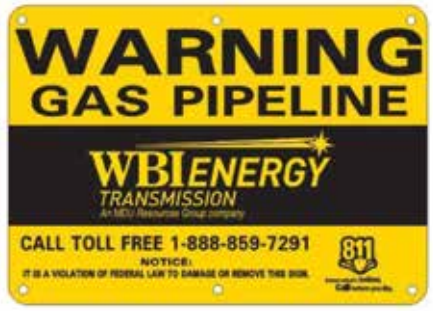
MINNESOTA
COUNTIES OF OPERATION:

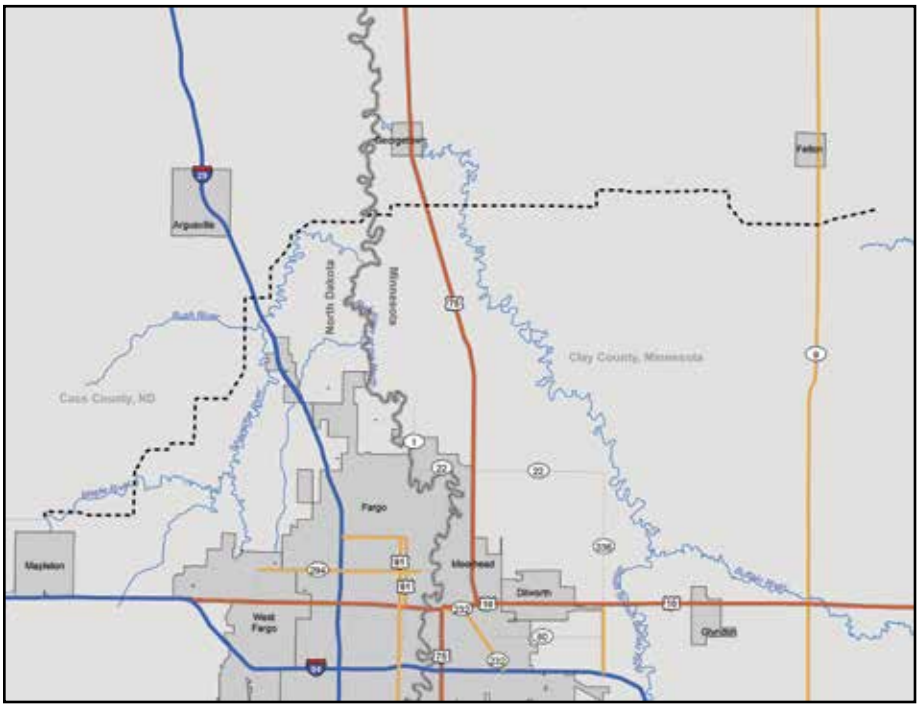
Clay

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Unfortunately, some emergencies do not exhibit warnings of imminent failure while others develop because the warnings were not recognized. We must therefore be prepared to respond effectively when an emergency develops. The key to effective emergency management and response preparedness is clear, concise communication and effective cooperation. When you call the 24-hour emergency phone number located on our marker signs or as listed in this document, you will speak with someone at our gas control center. The control center is the heart of the pipeline operations, where information about the pipeline and operating equipment is constantly monitored. As an emergency responder, you can help control the incident by being prepared to communicate as much information as possible to the control center about the current incident situation. Every incident is different - each will have special problems and concerns, carefully select actions to protect people, property and the environment and continue to gather information and monitor the situation until the threat is removed.

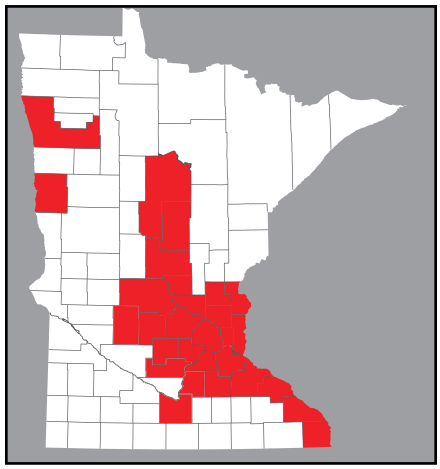




414 Nicollet Mall
Minneapolis, MN 55401
Telephone: (800) 895-4999
Website: www.xcelenergy.com

OPERATOR OVERVIEW

Xcel Energy is a combination electricity and natural gas energy company, and we offer a comprehensive portfolio of energy-related products and services to more than 3.6 million electricity customers and 2 million natural gas customers. We have regulated operations in nine states and own more than 35,000 miles of natural gas distribution pipelines, and over 2,200 miles of natural gas transmission pipelines delivering natural gas to residential, commercial and industrial natural gas customers. In Minnesota, Xcel Energy provides natural gas to customers in 28 counties, with 9,300 miles of natural gas distribution pipeline and 74 miles of transmission pipeline.



COMMITMENT TO SAFETY, HEALTH & ENVIRONMENT

Xcel Energy is committed to the public's safety, health and the environment through protection, operation, maintenance and routine inspection of our natural gas facilities and pipelines in compliance with all applicable rules and federal regulations. Key personnel within areas of Xcel Energy's natural gas operations are trained to assure a safe response to gas operations and emergencies. We also conduct periodic leak inspections and patrol for activities near pipelines that could impact safety.

Xcel Energy's public education program is designed to prevent third-party damage to its pipelines as well as enhance the public's awareness of steps to take in the event of any pipeline emergency. Xcel Energy is a member of the Common Ground Alliance, a member-driven association committed to saving lives and preventing damage to underground infrastructure by promoting effective damage prevention practices, such as identifying the approximate location of pipelines. Since the leading cause of pipeline accidents is third-party damage caused by digging/excavation activities, Xcel Energy steadfastly supports industry and will continue to provide and enforce activities designed to prevent damage to its pipelines and protect the public.

Local employees of Xcel Energy's natural gas operations work in partnership with local emergency officials to ensure the public's safety. From a minor gas leak to a fire or explosion, this partnership and strengthened communication between emergency responders and Xcel Energy reduces the risk to the public, the emergency officials and our employees when an emergency natural gas situation develops.

EMERGENCY CONTACT:
(800) 895-2999 (Gas)
(800) 895-1999 (Electric)

PRODUCTS/ DOT GUIDEBOOK ID#/ GUIDE#:

Electric		
Natural Gas	1971	115

MINNESOTA COUNTIES OF OPERATION:

Anoka	Meeker
Benton	Morrison
Blue Earth	Polk
Carver	Ramsey
Cass	Rice
Chisago	Scott
Clay	Sherburne
Crow Wing	Sibley
Dakota	Stearns
Goodhue	Wabasha
Hennepin	Waseca
Isanti	Washington
Kandiyohi	Winona
Le Sueur	Wright
McLeod	

Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.

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

Natural Gas

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

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

**Reference 49 CFR 192.615*

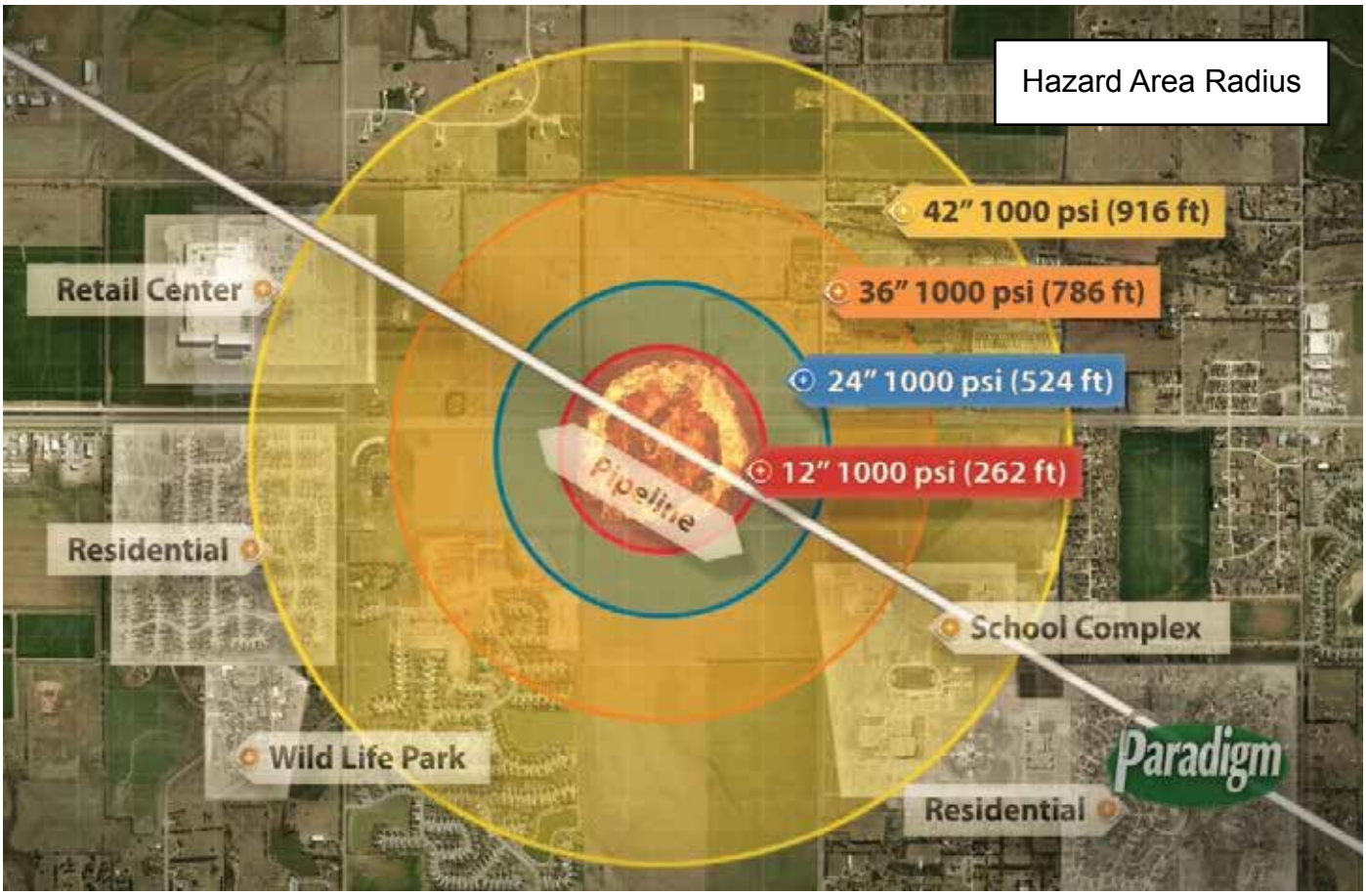
Hazardous Liquids

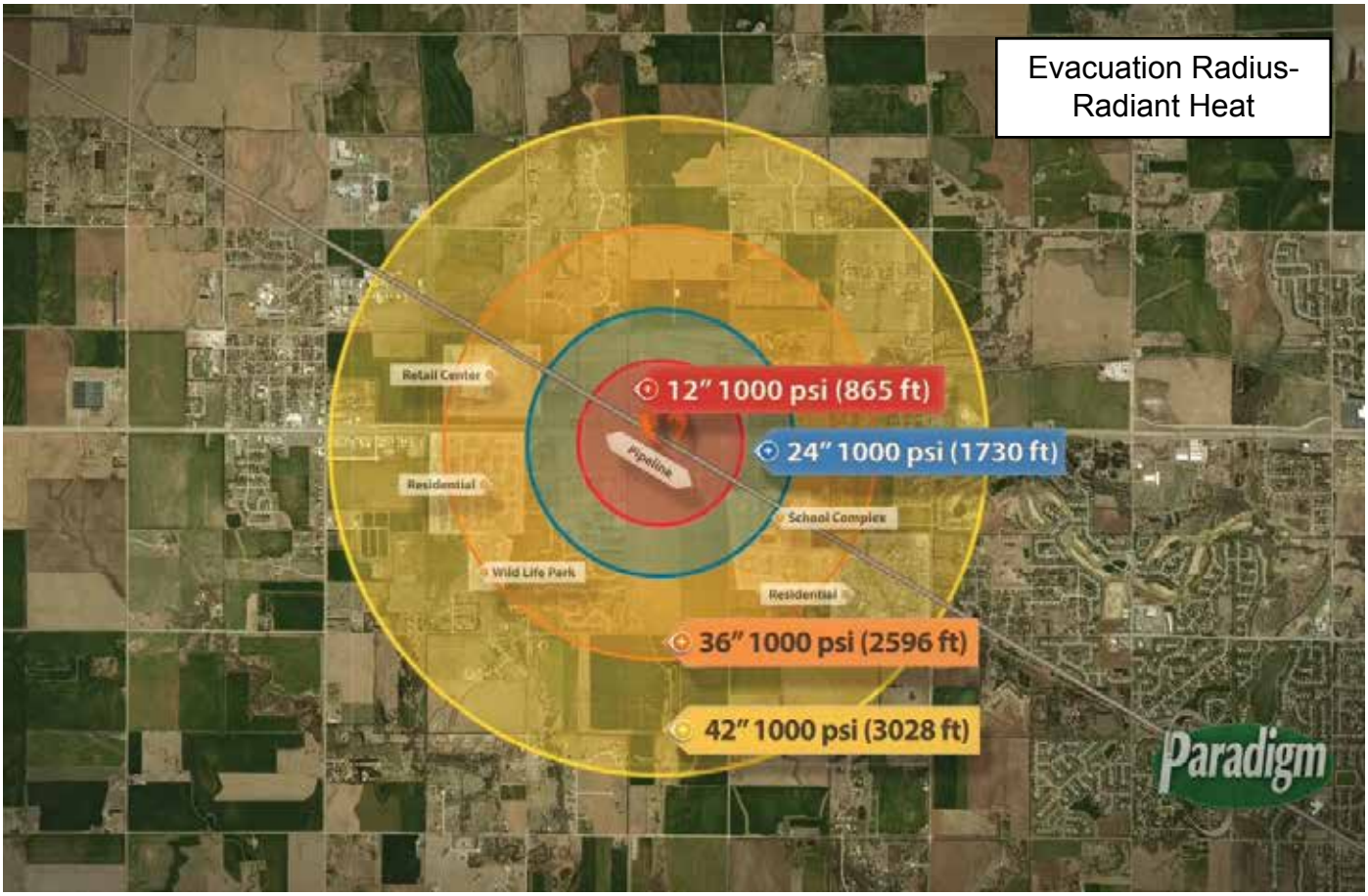
(a) General: Each operator shall prepare and follow for each pipeline system a manual of written procedures for conducting normal operations and maintenance activities and handling abnormal operations and emergencies. This manual shall be reviewed at intervals not exceeding 15 months, but at least once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

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

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

**Reference 49 CFR 195.402*


Hazard Area Radius
42" 1000 psi (916 ft)
36" 1000 psi (786 ft)
24" 1000 psi (524 ft)
12" 1000 psi (262 ft)
Pipeline
Retail Center
Residential
School Complex
Wild Life Park
Residential
Paradigm


Evacuation Radius-
Radiant Heat
12" 1000 psi (865 ft)
24" 1000 psi (1730 ft)
36" 1000 psi (2596 ft)
42" 1000 psi (3028 ft)
Pipeline
Retail Center
Residential
School Complex
Wild Life Park
Residential
Paradigm

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
4. Methodically and Strategically Obtain Information through Systematic Inquiry to be Captured in the Agency's Intake Format
5. Recognize the potential urgency of situations involving the release of dangerous gases or liquids related to pipelines or similar events of this nature and immediately begin the proper notifications consistent with agency policy
6. Perform all Information Entries and Disseminations, Both Initial and Update

FIRST RESPONSE CALL INTAKE CHECKLIST

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

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

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

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

Location:

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

Determine Exactly What Has Happened:

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

TABLE 1

Common Indications of a Pipeline Leak

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

PSAP - Notification of Potential Rupture Rule

From April Heinze at NENA October 2022

A recent change made at the federal level will begin to impact your Emergency Communications Center (ECC) very soon. In April 2022, the Pipeline and Hazardous Materials Safety Administration (PHMSA), a subset of the National Highway Traffic Safety Administration (NHTSA), updated a rule for Pipeline Operators. The rule went into effect on October 5, 2022. The PHMSA rule is 49 CFR § 192.615(a)(8) and § 195.402(e)(7). It requires pipeline operators to contact the appropriate PSAP immediately upon notification of a potential rupture. The rule specifies the following:

A ***Notification of Potential Rupture*** is an observation of any unanticipated or unexplained:

- Pressure loss outside of the pipeline's normal operating pressure
- Rapid release of a large volume of a commodity (e.g., natural gas or hazardous liquid)
- Fire or explosion in the immediate vicinity

ECCs will begin to receive calls from pipeline operators for situations that may not be dispatchable. Of the three potential rupture notifications, the "pressure loss outside of the pipeline's normal operating pressure" will be the most difficult for responders to locate and mitigate. The operators will contact the ECC at the same time they are sending a technician to check the potential problem and determine the actual location. Many pipeline segments span an extensive area that could cross multiple ECC and Fire Department boundaries. Based on recent discussions with pipeline operators, they will call ECCs to fulfill the rule requirements to place the ECC on standby for a potential problem. They also want the ECC to contact them if the ECC receives any calls that may confirm there is a problem.

PHMSA and pipeline operators lack an understanding of local ECC and first responder policies and procedures. Some pipeline operators have already sent letters to ECCs that serve the areas their pipeline infrastructure is located. It does not appear that PHMSA engaged the ECC community before adopting the rule, nor have they communicated this information to the responder community.

So, what does this mean for your ECC? ECCs are responsible for intaking information and dispatching appropriate resources. They are not in the habit of intaking details of a potential emergency and doing nothing with it. To do nothing creates liability issues for your ECC. ECC Managers should work with local Fire Departments to develop local policy regarding handling these calls. The policy will need to address whether to hold the information until further information is provided from the pipeline operator or, if a dispatch is to be made, what resources need to be sent. The policy should also address how to properly notify the pipeline operator if the ECC or responders discover that a potential rupture is, in fact, an actual rupture. ECC management should incorporate pipeline maps into their local GIS systems or maintain a map easily accessible to call-takers of the pipeline infrastructure within their jurisdiction. PHMSA has a pipeline mapping system that ECCs can use, https://www.npms.phmsa.dot.gov/. In addition, the ECC should consider specific questions within their call intake guides.

Specific Questions that ECCs may want to incorporate for potential rupture situations include:

1. What commodity might be leaking, and how severe does the potential leak appear?
2. What is the point-to-point location span of the potential rupture?
3. Is any special equipment needed for responders to mitigate the potential problem?

To comply with the new PHMSA rule, pipeline operators must contact ECCs reliably. Some pipeline operators are local or regional companies with existing relationships with the ECCs in their area. However, many pipeline operators serve a large geographic area and may not have established relationships with every ECC within their service area. Those pipeline operators may utilize the NENA Enhanced PSAP Registry and Census (EPRC) to obtain PSAP contact information. NENA strongly encourages you to verify the accuracy of your PSAP's contact information in the EPRC database. ECC 24/7/365 emergency contact number(s) should be 10-digit lines answered as quickly as possible. Callers should not be required to interact with a phone tree or wait on hold if possible. Access to the EPRC is free for ECCs. To learn more and to request user accounts if you do not already use the EPRC, visit nena.org/eprc.

Pipelines In Our Community

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

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

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

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

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.

American Public Works Association (APWA) Uniform Color Code

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

National One-Call Dialing Number:

811

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

For More Details Visit: www.call811.com

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
- Mud or water bubbling up
- Frozen area on ground

**Signs vary based upon product*

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

OTHER - NEAR PIPELINE OPERATIONS
- Burning eyes, nose or throat
- Nausea

SOUND
- A hissing or roaring sound

What To Do If A Leak Occurs

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

Pipeline Emergency

Call Gas Control Or Pipeline Control Center Use ***Pipeline Emergency Response Planning Information Manual*** for contact information
Phone number on warning markers
Use state One-Call System, if applicable

Control Center Needs To Know Your name & title in your organization
Call back phone number – primary, alternate
Establish a meeting place
Be very specific on the location ***(use GPS)***
Provide City, County and State

Injuries, Deaths, Or Property Damage Have any known injuries occurred?
Have any known deaths occurred?
Has any severe property damage occurred?

Traffic & Crowd Control Secure leak site for reasonable distance
Work with company to determine safety zone
No traffic allowed through any hot zone
Move sightseers and media away
Eliminate ignition sources

Fire Is the leak area on fire?
Has anything else caught on fire besides the leak?

Evacuations Primary responsibility of emergency agency
Consult with pipeline/gas company

Fire Management **Natural Gas –** DO NOT put out until supply stopped
Liquid Petroleum – water is NOT recommended; foam IS recommended
Use dry chemical, vaporizing liquids, carbon dioxide

Ignition Sources Static electricity *(nylon windbreaker)*
Metal-to-metal contact
Pilot lights, matches & smoking, sparks from phone
Electric switches & motors
Overhead wires
Internal combustion engines
Garage door openers, car alarms & door locks
Firearms
Photo equipment
High torque starters – diesel engines
Communication devices – not intrinsically safe

High Consequence Areas Identification*

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.

Sites within your jurisdiction will fit the above requirements, please go to my.spatialobjects.com/admin/register/ISR to provide this valuable information to pipeline companies.

** 49 CFR §192.903.*

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.

Maintaining Safety and Integrity of Pipelines

Pipeline companies invest significant time and capital maintaining the quality and integrity of their pipeline systems. Most active pipelines are monitored 24 hours a day via manned control centers. Pipeline companies also utilize aerial surveillance and/or on-ground observers to identify potential dangers. Control center personnel continually monitor the pipeline system and assess changes in pressure and flow. They notify field personnel if there is a possibility of a leak. Automatic shut-off valves are sometimes utilized to isolate a leak. Gas transmission and hazardous liquid pipeline companies have developed supplemental hazard and assessment programs known as Integrity Management Programs (IMPs). IMPs have been implemented for areas designated as "high consequence areas" (HCAs) in accordance with federal regulations. Specific information about companies' programs may be found on their company web sites or by contacting them directly.

How You Can Help Keep Pipelines Safe

While accidents pertaining to pipeline facilities are rare, awareness of the location of the pipeline, the potential hazards, and what to do if a leak occurs can help minimize the number of accidents. A leading cause of pipeline incidents is third-party excavation damage. Pipeline companies are responsible for the safety and security of their respective pipelines. To help maintain the integrity of pipelines and their right-of-way, it is essential that pipeline and facility neighbors protect against unauthorized excavations or other destructive activities. You can help by:

- Being aware of any unusual or suspicious activities or unauthorized excavations taking place within or near the pipeline right-of-way or pipeline facility.
  - Develop contacts and relationships with pipeline company representatives, i.e. participate in mock drill exercises with your local pipeline company.
  - Share intelligence regarding targeting of national infrastructure, and specific threats or actual attacks against pipeline companies.
  - Assist with security steps for pipeline facilities during heightened national threat levels, i.e., increased surveillance near facilities.
  - Monitor criminal activity at the local level that could impact pipeline companies, and anti-government/ pipeline groups and other groups seeking to disrupt pipeline company activities.
- Keeping the enclosed fact sheets for future reference.
- Attending an emergency response training program in your area.
- Familiarizing yourself and your agency with the Pipelines and Informed Planning Alliance (PIPA) best practices regarding land use planning near transmission pipelines.
- Completing and returning the enclosed postage-paid survey.
- Report to the pipeline company localized flooding, ice dams, debris dams, and extensive bank erosion that may affect the integrity of pipeline crossings.

National Pipeline Mapping System (NPMS)

The National Pipeline Mapping System (NPMS) is a geographic information system created by the U.S. Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA), Office of Pipeline Safety (OPS) in cooperation with other federal and state governmental agencies and the pipeline industry to provide information about companies and their pipelines. The NPMS web site is searchable by ZIP Code or by county and state, and can display a printable county map.

Within the NPMS, PHMSA has developed the Pipeline Integrity Management Mapping Application (PIMMA) for use by pipeline companies and federal, state, and local government officials only. The application contains sensitive pipeline infrastructure information that can be viewed via internet browsers. Access to PIMMA is limited to federal, pipeline companies. PIMMA access cannot be given to any person who is not a direct employee of a government agency.

For a list of companies with pipelines in your area and their contact information, or to apply for PIMMA access, go to npms.phmsa.dot.gov. Companies that operate production facilities, gas/liquid gathering piping, and distribution piping are not represented by NPMS nor are they required to be.

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

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:

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

Government Emergency Telecommunications
www.dhs.gov/government-emergency-telecommunications-service-gets

Infrastructure Protection – NIPC
www.dhs.gov/national-infrastructure-protection-plan

National Emergency Number Association
https://www.nena.org/?

National Fire Protection Association (NFPA)
www.nfpa.org

National Pipeline Mapping System
www.npms.phmsa.dot.gov

National Response Center
www.nrc.uscg.mil 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)
www.wiser.nlm.nih.gov

FOR MORE INFORMATION ON THE NASFM *PIPELINE EMERGENCIES* PROGRAM
www.pipelineemergencies.com

FOR EMERGENCY RESPONSE INFORMATION, REFER TO DOT GUIDEBOOK.
FOR COPIES: (202) 366-4900
www.phmsa.dot.gov/hazmat/erg/emergency-response-guidebook-erg

MINNESOTA OFFICE OF PIPELINE SAFETY

445 Minnesota Street
St. Paul, MN 55101-5147
Telephone: (651) 201-7230
Fax: (651) 296-9641
TTY: (651) 282-5555
http://ops.dps.mn.gov.

EMERGENCY CONTACTS:

Duty Officer Statewide.....(800) 422-0798
Duty Officer Metro.....(651) 649-5451
MN Office of Pipeline Safety.....(651) 201-7230

MISSION STATEMENT

The mission of the Minnesota Office of Pipeline Safety (MNOPS) is to protect lives, property, and the environment through the implementation of a program of gas and hazardous liquid pipeline inspections, enforcement, accident and incident investigations, and education.

Presenter/Contact Information:	Key Take-Aways:
	✓
	✓
	✓
	✓
	✓

Comments to Remember

Questions to Ask

New Concepts to Explore

Additional Notes

Additional Notes

GOPHER STATE ONE CALL

Connecting Minnesota for Safe Digging

www.gopherstateonecall.org

Gopher State One Call
1110 Centre Pointe Curve Suite 100
Mendota Heights, MN 55120
651-454-8388 Administration
651-681-7326 Customer Support

Public Underground Utility Locates
www.gopherstateonecall.org
651-454-0002 (Metro)
800-252-1166 (Greater MN)
811 (One Call)
Emergencies Only: 866-640-3637

Gopher State One Call (GSOC) is the nonprofit corporations formed in 1987 by the enacting of Minnesota Statutes Chapter 216D. GSOC ensures the safety of all Minnesotans by receiving notices of intent to excavate from any person engaged in excavation activity and notifying underground facility operators who have requested notification in the areas of excavation.

GSOC encourages all excavators, locators, and facility owners and operators to visit the GSOC website, www.gopherstateonecall.org which features many educational and safety tools that may assist you in your daily duties.

GSOC encourages you to be sure all your crews or third-party excavation contractors get familiar with ITIC, our on line ticket processing tool which allows excavators to process their one call notification with GSOC electronically, 24 hours a day, 365 days a year. The new ITIC® is designed with both the excavator and facility operator in mind. It streamlines many of the tasks required to file tickets on line. ITIC provides precise control and maximum flexibility over the mapping process. This new approach will save the user time and effort and improve ticket quality.

MINNESOTA

Gopher State One-Call: 800-252-1166 or 651-454-0002
Website: www.gopherstateonecall.org
Hours: April 1st – October 31st: 6am to 6pm; November 1st – March 31st: 7am to 5pm
Advance Notice: 48 hours (excluding weekends and holidays)
Marks Valid: 14 days
Law Link: http://primis.phmsa.dot.gov/comm/DamagePreventionSummary.htm

TICKETS			STATE LAWS & PROVISIONS									NOTIFICATION EXEMPTIONS					NOTIFICATIONS ACCEPTED					
FAX	Online	Mobile	Statewide Coverage	Civil Penalties	Emergency Clause	Mandatory Membership	Excavator Permits Issued	Mandatory Premarks	Positive Response	Hand Dig Clause	Damage Reporting	DOT	Homeowner	Railroad	Agriculture	Depth	Damage	Design	Emergency	Overhead	Large Projects	Tolerance Zone
N	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N	N	N	N	Y 18"	N	N	Y	Y	N	Y	24"

PIPELINE
Community Awareness
Emergency Response
MNCAER

1.877.477.1162 • mncaer.com