



TERMINAL SAFETY AND EMERGENCY RESPONSE GUIDE



To obtain more information about our Emergency Response Plans or Assets Integrity Programs, please call 800-574-6671.

24-Hour Emergency Operations Control: 800-720-2417

Learn more about how to safely and effectively respond to a pipeline emergency.

API Shoulder to Shoulder
Video Series:



Professional Development Opportunities
for Individuals and Organizations

NASFM TRAINING



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RESOURCES AND TRAINING

The National Association of State Fire Marshals (NASFM), the American Petroleum Institute (API), and the Association of Oil Pipelines have sponsored training videos for the Emergency Response Community.



National Association of
STATE FIRE MARSHALS



NASFM TRAINING

Professional Development Opportunities
for Individuals and Organizations



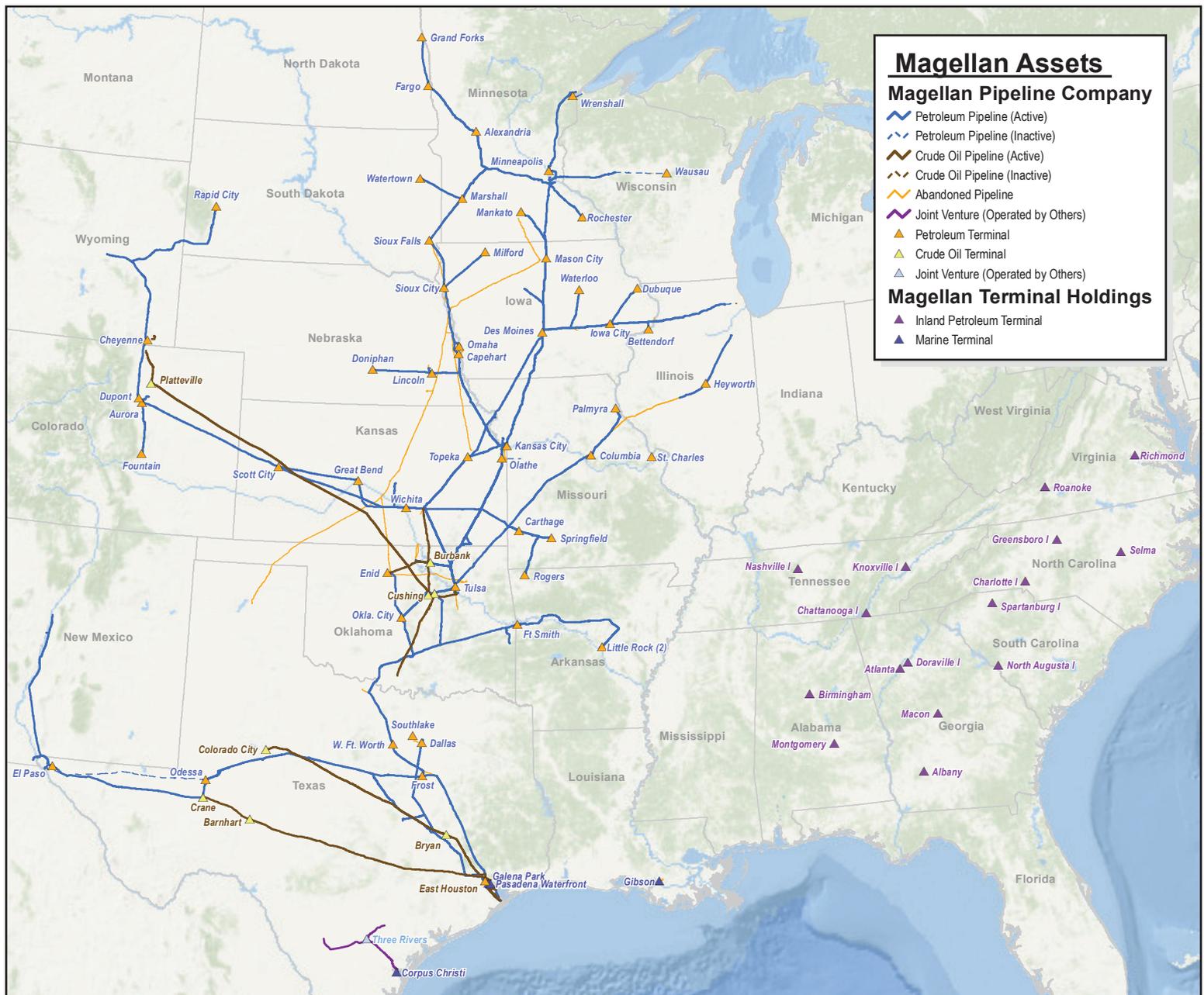
API Shoulder to Shoulder Video Series:

Learn more about how to safely and
effectively respond to a pipeline emergency.

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GUIDE FOR EMERGENCY RESPONDERS

Magellan Midstream Partners, L.P. moves the fuel that keeps America going. Our facilities are part of a vast national network of pipelines and terminals that reliably transport and stores petroleum products in a safe, clean, and economical manner. Products shipped through our pipelines are used to generate power, fuel cars, make plastics, heat homes, and much more.



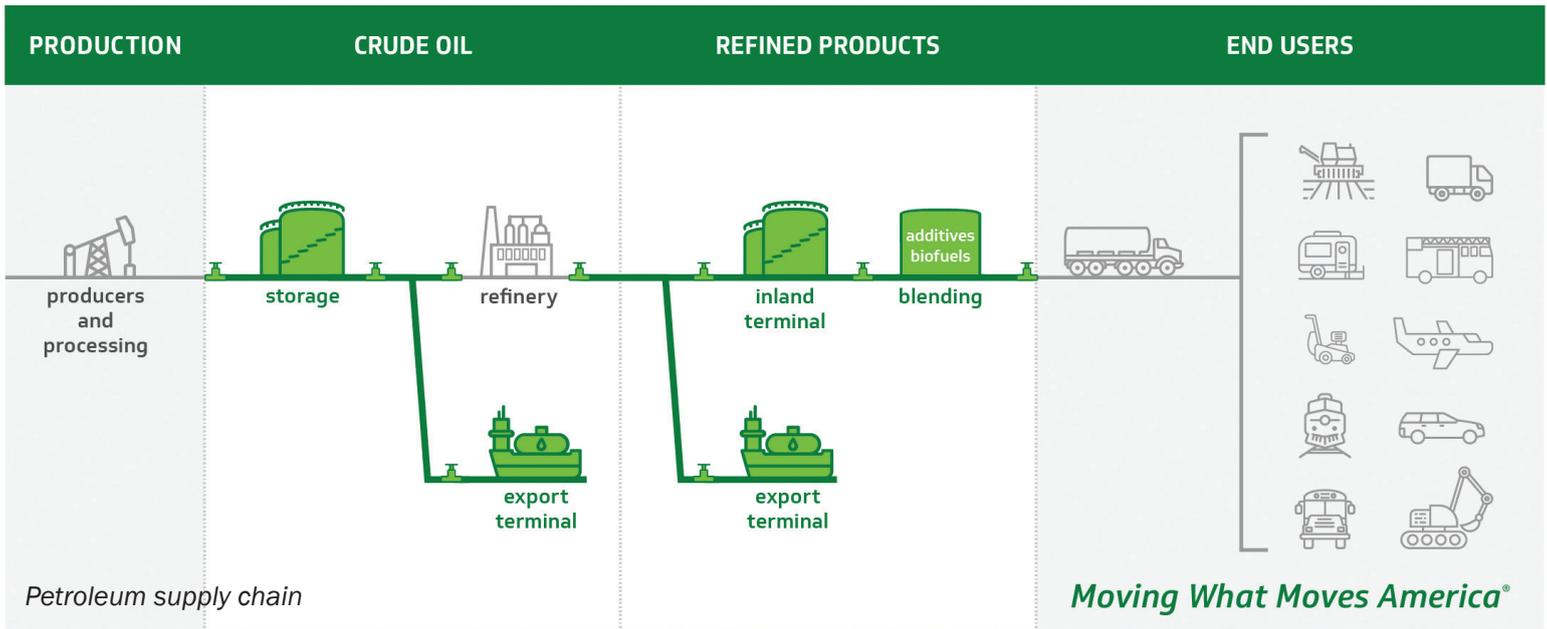
Magellan is the longest common carrier pipeline system for refined products and liquid petroleum gases (LPGs) in the United States, extending approximately 9,800 miles from the Texas Gulf Coast and covering a 15-state area throughout the central U.S. The system includes 54 connected terminals and 25 independent terminals. Magellan also owns and operates over 2,200 miles of crude oil pipelines with over 37 million barrels of storage.

This guide is designed to assist emergency response agencies in understanding the operations, hazards, and emergency procedures to be able to safely respond to emergency events at our facilities. In addition to a description of our general operations, this guide contains a list of products carried, emergency contacts, emergency equipment, and a facility drawing.

For an updated version of this map, please visit Magellan’s website at:
<https://magellanlp.com/WhatWeDo/AssetMap.aspx>

AN IMPORTANT PART OF THE PETROLEUM SUPPLY CHAIN

Petroleum terminals, such as the ones owned by Magellan in your area, are an essential part of the petroleum supply and distribution chain. The gasoline in your vehicle's tank today started from an oil well. Trucks took crude oil from that well and transported it to a crude oil terminal where it was stored in large tanks before being sent on to either another terminal or to a refinery through a pipeline.



At the refinery, crude oil is processed into various petroleum products, including gasoline, diesel fuel, jet fuel, and more. Those products are then transported via pipeline to a refined products terminal where they are segregated further, tested for quality, and readied for distribution. Transport trucks complete the final step of delivering these products to a neighborhood service station.

PIPELINES TO TERMINALS

Petroleum products typically arrive at a distribution terminal like Magellan's via pipeline. A terminal may have multiple pipelines entering and exiting the facility, carrying products from point A to point B and further. These lines may be dedicated to one product such as gasoline, or they may contain multiple products that are sequenced in batches. The pipelines lead to a manifold where valves and piping direct the product to the appropriate storage tank where it will be quality tested, then made available to the loading rack. Products may also be stored in tanks at storage terminals temporarily to help balance supply and demand in certain markets.



Facility piping

Additional products may arrive via transport truck instead of pipeline. These can include additives, ethanol, or butane, all of which are used in the blending process of gasoline products.

EMERGENCY RESPONDER NOTE

In the event of a pipeline release, work with Magellan operations to verify the pipe's contents and batch status. Depending on the batch location, a diesel fuel leak could quickly turn into a gasoline leak.

Manifold configurations will differ by location. Valves can be manual or power operated, in which case you may encounter high voltage power supplies.

STORAGE TANKS

Magellan uses a variety of types of storage tank types at our terminals. All storage tanks are made of steel construction with steel floors, are built to industry standards, and are thoroughly inspected on a regular basis. Rings of steel panels make up the sides of our tanks.



Operator aligning valves



Additive tanks

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Tank farm with trucks lined up at loading rack.



The type of roof is what makes the difference for most storage tanks. Some tanks are built with a solid cone roof with vents along the perimeter. Other tanks may only have a floating roof and some tanks may have an aluminum geodesic dome installed over a floating roof.

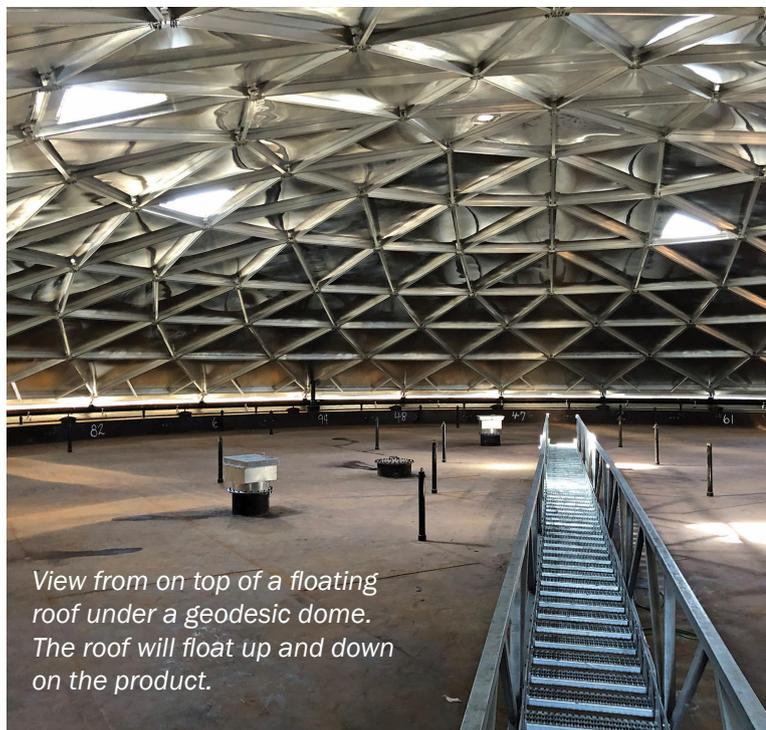
Floating roof tanks have a steel or aluminum roof that floats on top of the stored product and goes up and down as the product inside the tank increases or decreases. The roof will have a rubber-type material along the outer edges that acts as a vapor seal as the roof moves up and down inside the tank. A floating roof will also have either steel legs or cables that hold the roof up when the tank is drained so work can be performed on the floor of the tank.

Terminal employees will routinely climb the tanks using the outside stairs to perform inspections and to tank samples for quality control.

EMERGENCY RESPONDER NOTE

Each tank will sit inside a tank dike that is designed to hold the contents of the largest tank inside the dike in the event of a release.

Some tanks may also have fire suppression piping installed.



View from on top of a floating roof under a geodesic dome. The roof will float up and down on the product.



6 bay loading rack



Transport driver connecting a loading arm to the truck valve



Vapor combustor unit

LOADING RACKS

Once a fuel is tested and approved for quality purposes, the storage tank will then be lined up to deliver to the loading rack. A loading rack may have two to 10 loading bays, each designed to load one transport truck at a time.

The loading process starts with the transport driver carding into the system and selecting a load recipe from the computer display. The transport truck may have multiple compartments, each capable of carrying a different product (like gasoline or diesel) or a different grade of product (such as 87 and 93 octane). The driver will ground the truck, connect vapor recovery piping, then connect the loading arms to the truck.

EMERGENCY RESPONDER NOTE

Loading racks may be equipped with a fire detection and suppression system using foam or dry chemical extinguishers

A vapor combustor unit uses a high temperature flame to combust vapors generated during the loading process.

A truck will generally take 20 to 30 minutes to load. While loading, the vapors produced are collected and either sent to a combustor unit or to a vapor recovery unit. Once finished, the driver will reverse the process, ensure placards are correct for the load, and pick up a Bill of Lading before delivering the load to a service station.

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NGL (Propane/Butane) Transport offloading



Butane horizontal tanks with pressure relief valves



Test of a deluge system on a butane sphere

PROPANE AND BUTANE USE AND STORAGE

In addition to gasoline, diesel, jet fuel, and crude oils, Magellan's facilities may also store and use butane and propane. In addition, propane is also stored and shipped through our pipelines in Kansas, Missouri, Iowa, and Illinois, or it may arrive at those facilities by truck.

Butane can arrive at facilities by truck or by pipeline. Some facilities may also offer butane or propane loading, where transport trucks arrive and load with butane or propane.

Butane and propane are stored on-site in horizontal pressure vessels, which are equipped with multiple safety devices including pressure relief valves and nitrogen activated shutoff valves. In addition, facilities will have flammable gas detectors, which will alert personnel to the presence of small amounts of flammable gases.

EMERGENCY RESPONDER NOTE

In the event of a butane or propane release, a hazardous vapor cloud may form. Magellan personnel will notify 911, conduct evacuations, and shutdowns, and work with the local response agencies to monitor the air for hazardous atmospheres until the release has diminished or the local agencies take some sort of defensive or offensive actions.

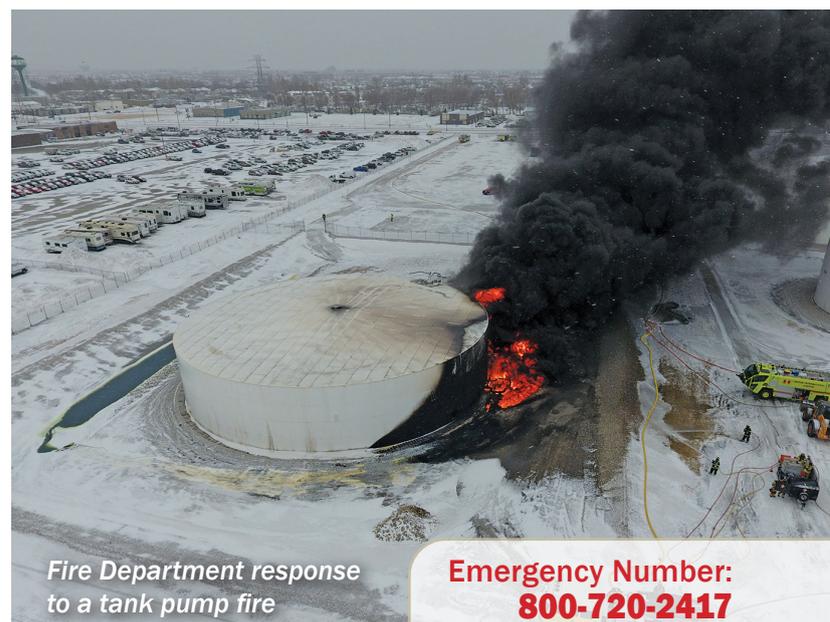
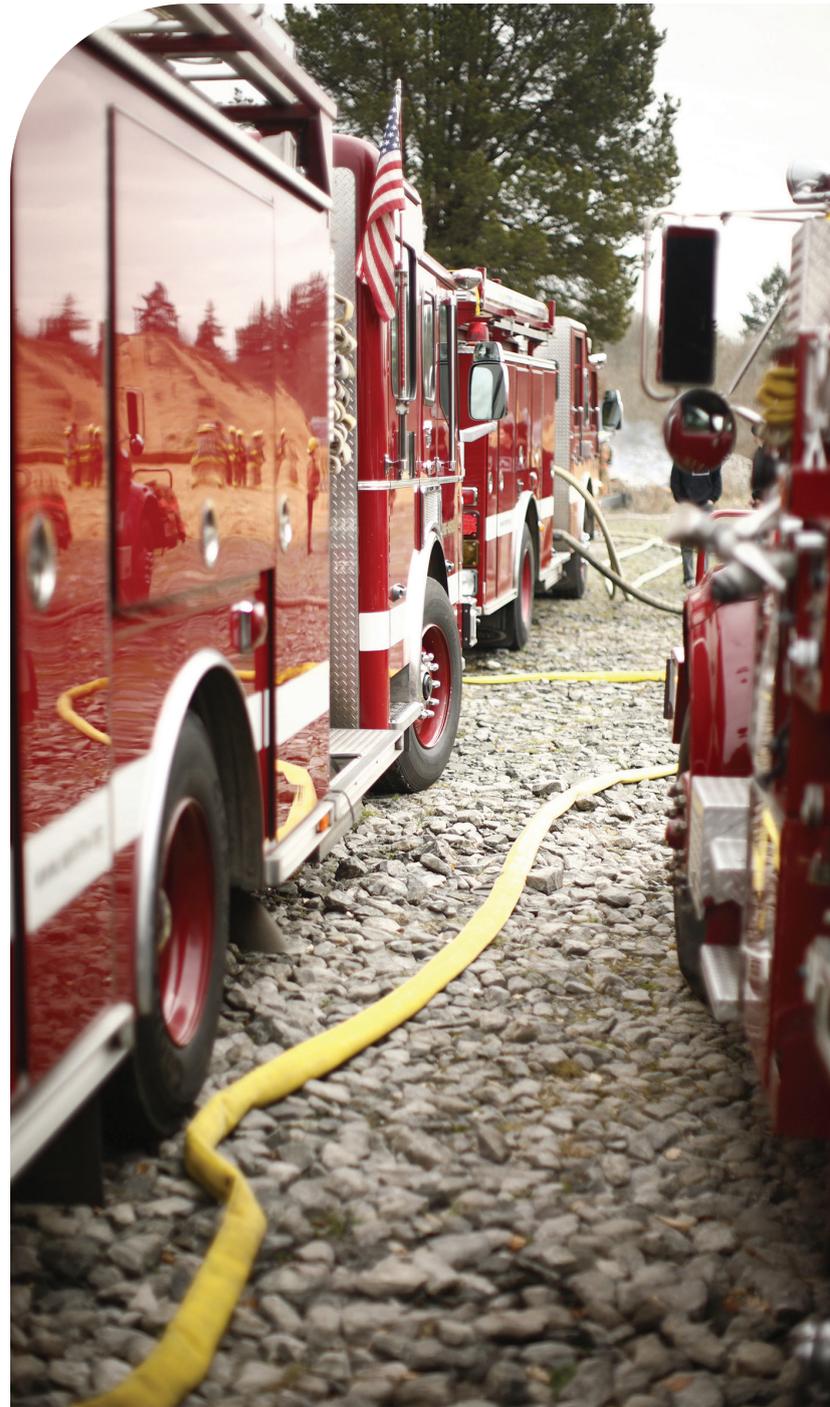
EMERGENCY RESPONSE PLANS

All of Magellan's petroleum storage facilities have detailed Emergency Response Plans in place, which describe actions to be taken in the event of all types of hazards from fires to floods to earthquakes. Magellan personnel train on and use the Incident Command System and have contracts with a variety of emergency response resources including professional industrial fire-fighting services, air monitoring contractors, oil cleanup contractors as well as other types of industrial services. The facility may have fire suppression systems at the loading rack and other types of fire fighting equipment at the facility.

There are two types of events which rarely occur, but could potentially have off-site consequences – a large flammable liquid release or a tank fire.

In the event of a large flammable liquid release, Magellan personnel will notify the local 911, as well as take steps to shut down operations, evacuate the facility, stop the release, and notify cleanup contractors. In addition, personnel have access to industrial air monitors and can survey the area for hazardous concentrations of contaminants. Magellan personnel will work with local response agencies to ensure the safety of the community and mitigate any hazards

A tank fire may begin when triggered by an event such as a lightning strike, resulting in a rim seal fire or a full surface fire. In the event of a tank fire, Magellan personnel will notify the local 911, air monitoring contractors and industrial firefighting services, as well as take steps to shut down operations and evacuate the facility. Personnel will work with local response agencies to ensure the safety of the community by assisting in air monitoring and work in a Unified Command setting to determine a path forward.



Fire Department response to a tank pump fire

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



Want to learn more about pipelines operating in your community?

Visit the National Pipeline Mapping System (NPMS) at <https://www.npms.phmsa.dot.gov/>

This website provides a list of pipeline operators in your community as well as the location of pipelines and other valuable information.

EMERGENCY NUMBER 800-720-2417 | www.magellanlp.com

LOCAL CONTACTS

Name _____ Phone Numbers _____

Title _____ Alternate Contact _____

Email _____ Alternate Phone _____

FACILITY

PRODUCTS

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

EMERGENCY EQUIPMENT

- Hand-held Fire Extinguishers
- Foam Cannons
- Foam Supply
- Loading Rack Fire Suppression System
- Eye Wash
- Emergency Shower
- Other _____

FACILITY DRAWINGS CONTAIN

- Fire Hydrants: Number & Location
- Evacuation Routes
- Muster Point
- Sketch of Facility
- Strip Map
- Volume of Largest Tank in Barrels _____
- Diameter of Largest Tank _____
- Hours of Manned Operation _____

MAINLINE

PRODUCTS

- Crude Oil
- Jet Fuel
- Diesel Fuel
- Gasoline
- Propane
- Butane
- Alkalyte
- Ethanol/Methanol
- Other _____
- Other _____
- Largest Pipe Diameter _____