

2018 Pipeline Training Grant



Pipeline Safety Training Grant

- \$134,000 in pipeline training funding through the office of State Representative Carolyn Comitta and the Pennsylvania Department of Education.



- Two grant-funded training opportunities:
- Texas A&M / TEEK – firefighter / HAZMAT classroom and experiential training, College Station, TX.
- US DOT / PHMSA / Transportation Safety Institute classroom training – Oklahoma City, OK.

Texas A&M / TEEX Training



- College Station, Texas
- Texas A&M Engineering Extension Service
- Provides training for firefighters, EMS, pipeline workers and oil rig workers.
- Internationally renowned training facility.

Texas A&M / TEEX Training

State of the art
training campus just west
of Texas A&M campus



Texas A&M / TEEX Training

State of the art
training facilities for all
disciplines of emergency
professional first
responders



Texas A&M / TEEX Training

Facility also known as
“Disaster City”



Texas A&M / TEEX Training

Real-world firefighting
training activities



Texas A&M / TEEX Training

Pipeline firefighting
simulations using realistic
flammable natural gas



Texas A&M / TEEX Training

Provided line personnel
and supervisory training
to 25 West Chester Fire
Company and Chester
County HAZMAT
personnel.



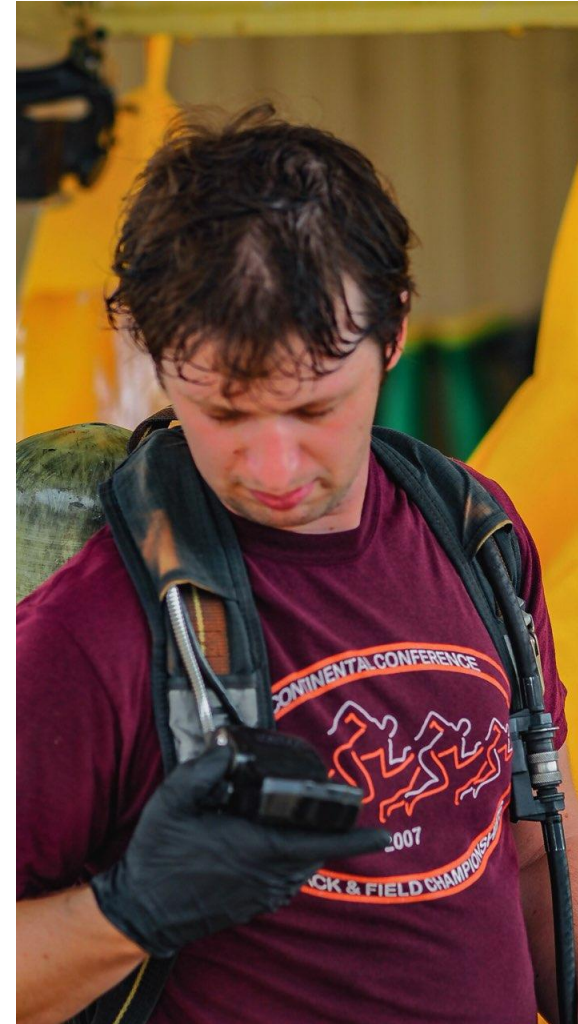
Texas A&M / TEEX Training

Provided pipeline-specific training opportunity with classroom and “real” training, as seen here.



Texas A&M / TEEX Training

Our personnel suited up
daily to encounter real-
life conditions.



Texas A&M / TEEX Training

Personnel were put through training scenarios with “props” to realistic training exercises.



US DOT / PHMSA Training

Township personnel from
Chester County “pipeline”
municipalities attended.

3-day US DOT / PHMSA
training in Oklahoma City,



Transportation Safety Institute Certificate

Casey LaLonde

successfully completed

**U.S. DOT Pipeline Safety Compliance
Liquid**

*Conducted in Oklahoma City, OK
November 6-8, 2018*


Manager, Multi-Modal Safety Division


Director, Transportation Safety Institute

US DOT / PHMSA Training

Training conducted by two US DOT / PHMSA trainers over the course of 3 days to over 25 municipal employees and Chester County HAZMAT employees.

- 796 page instruction manual.
- 2 live DOT trainers for the 3 full days of training.
- Training took place on US Department of Transportation facility in Oklahoma City, OK.
- No photos allowed!

US DOT / PHMSA Training

- Classroom instruction.
- Informational and illustrative quizzes and problems.
- Historical overview of pipelines in the United States.
- Current pipeline regulations, specifically regarding HVL pipelines.
- Overview of industrial accidents and releases over the last several decades.
- 796 page instruction manual.
- Manual will be posted on Township's website under the Sunoco page.

US DOT / PHMSA Training

Products transmitted
through pipelines:

Crude oil; refined
petroleum products;
liquid carbon dioxide;
natural gas; water &
sewer



US DOT / PHMSA Training

Pipeline materials:

Steel

Thermoplastics (PVC)

Thermosetting (fiberglass)

Newer composites

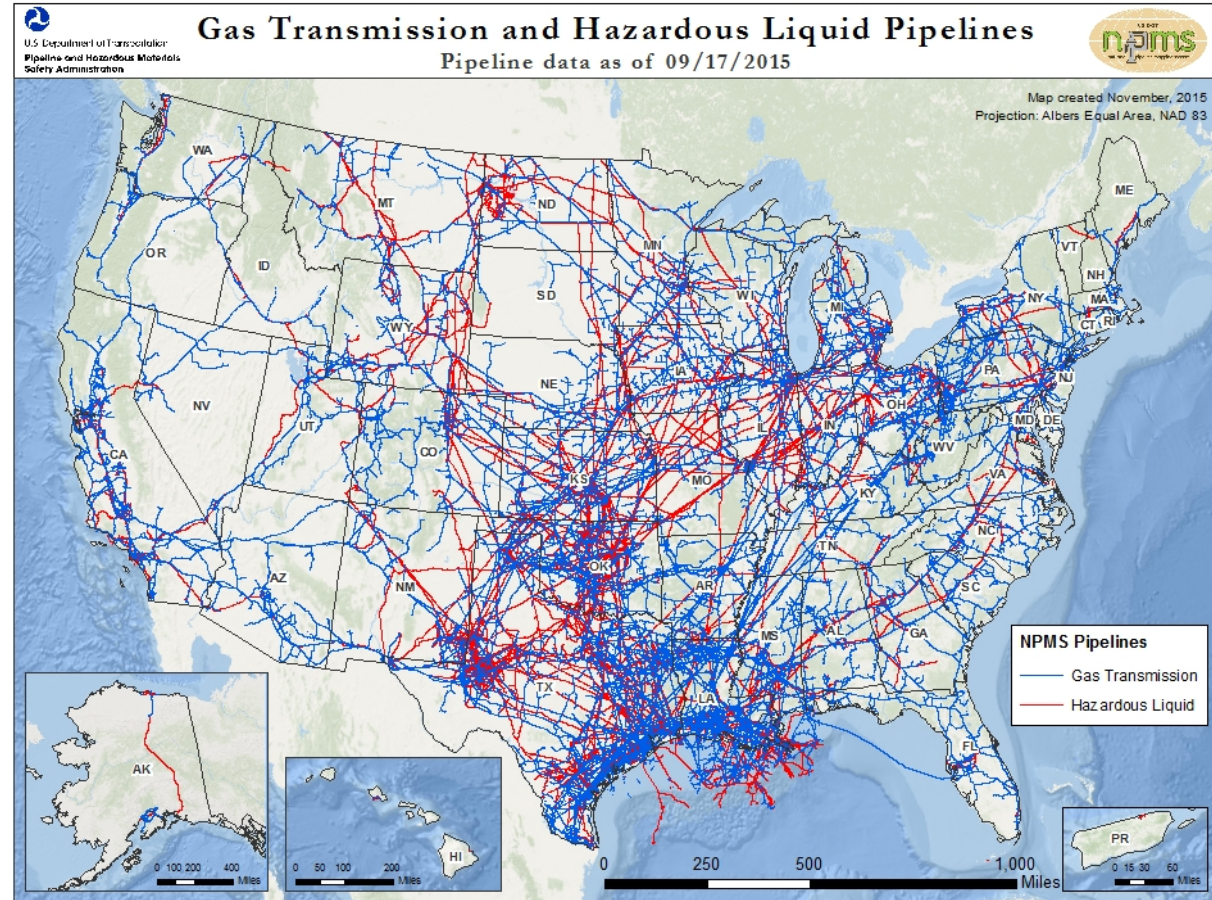
Cast & ductile iron

Ceramic materials



US DOT / PHMSA Training

2015 – Gas transmission
& Hazardous Liquids
Pipelines

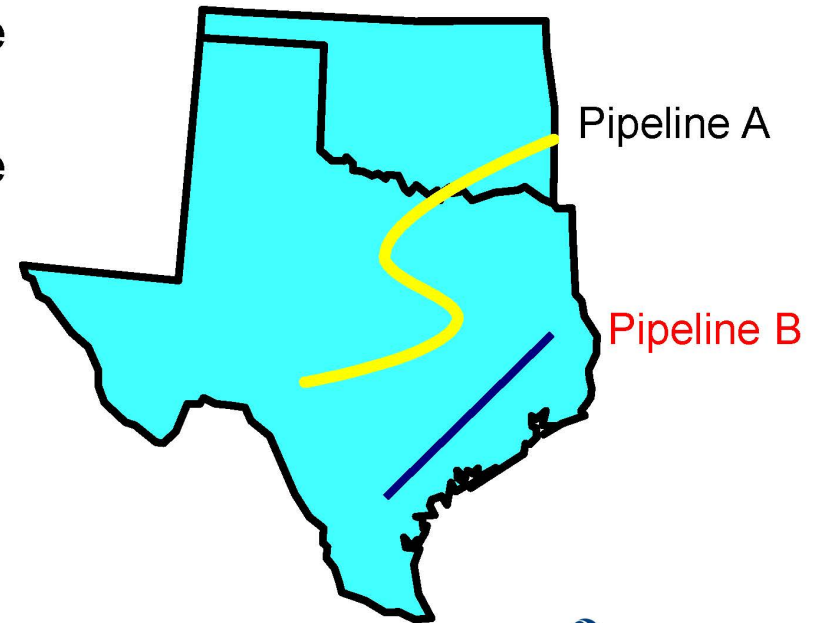


US DOT / PHMSA Training

Interstate vs. Intra-state
pipeline definitions

Interstate v. Intrastate Pipelines

- A=Interstate
- B=Intrastate



US DOT / PHMSA Training

Interstate v. Intrastate

Interstate and Intrastate Pipelines

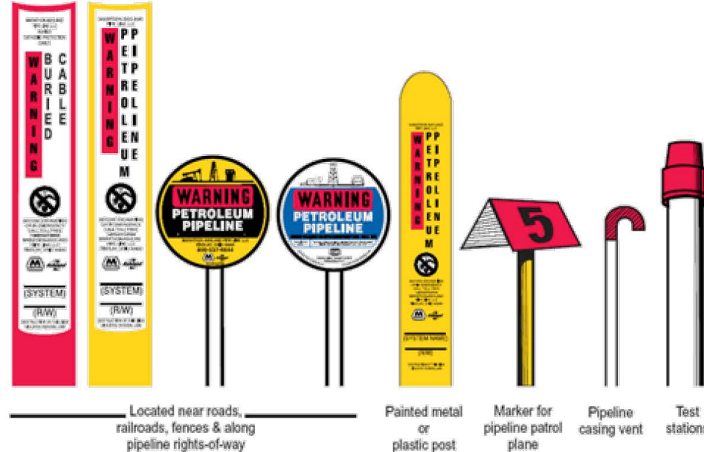
- Interstate pipelines (typically gas transmission and liquid pipelines) are covered under federal regulations of various agencies.
- Intrastate pipelines (gas distribution, and gas and small liquid midstream companies) fall under the auspices of state agencies, which may have adopted the federal regulations or have their own more stringent versions.

US DOT / PHMSA Training

Pipeline markers

How to identify pipeline locations?

- Signs or markers located near road and railroad crossings and along pipeline right-of-ways
- Signs identify company, product, and 24/7 emergency phone number
- Signs do not mark exact location or depth of pipeline



US DOT / PHMSA Training

Public Awareness Involvement

Public Awareness Involvement



US DOT / PHMSA Training

Government Agencies
Pipeline Oversight

- PHMSA – Pipeline and Hazardous Materials Administration
- FERC – Federal Energy Regulatory Commission
- Pennsylvania Public Utility Commission (PUC)



US DOT / PHMSA Training

Pipeline Integrity Management Program



U.S. Department of Transportation
Office of the Assistant Secretary for Research and Technology

Integrity Management Programs



US DOT / PHMSA Training

Threat Identification by pipeline operators

Threat Identification

Nine Identified Threats:

1. External Corrosion
2. Internal Corrosion
3. Stress Corrosion Cracking
4. Manufacturing Related Defects
5. Welding/Fabrication Related Defects
6. Equipment Failures
7. Third Party/Mechanical Damage
8. Incorrect Operations
9. Weather Related and Outside Force



US DOT / PHMSA Training

Approved Assessment Methods

Approved Assessment Methods

- In-Line Inspection
- Hydrostatic Testing
- Direct Assessment for Corrosion Threats
 - ECDA (external corrosion direct assessment)
 - ICDA (internal corrosion direct assessment)
- Other if Approved by PHMSA

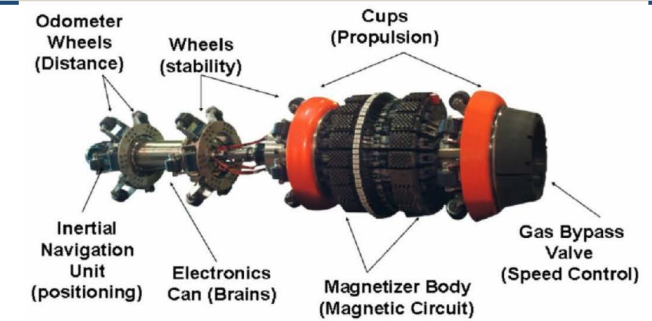
* Assessment method must be capable of detecting the suspected threat

US DOT / PHMSA Training

“Smart pig” technology
and other assessment
measures

Integrity Management
Program (IMP)

IMP Assessments



US DOT / PHMSA Training

Online PHMSA Resources

PHMSA Internet Resources

- PHMSA - <http://www.phmsa.dot.gov/pipeline>
 - All things PHMSA.
 - Gateway to reporting, regulations, interpretations, program information, forms.

- Additional Resources
 - Stakeholder communications
 - National pipeline mapping system
 - Inspection and enforcement
 - State programs

US DOT / PHMSA Training

The entire 796 page US
DOT / PHMSA training
manual is available at
www.westgoshen.org
under the “Sunoco
Pipeline” tab



U.S. Department of Transportation
Office of the Assistant Secretary for Research and Technology

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Transportation Safety Institute

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