

The Center
for Rural Development



RDPCTM

Rural Domestic Preparedness Consortium

Prepare for the Worst, Train To Be the Best

Overview of the AWR 302 - Pipeline Security for Rural Communities



Securing the Lifelines: Pipeline Security in the Modern Era!



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Presentation Outline



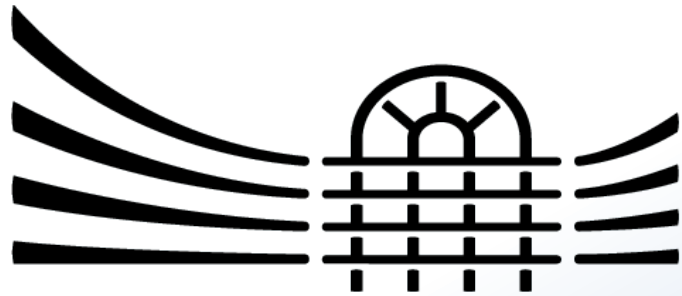
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- Engage-Collaboration tool-Emergency Responders and Pipeline Operators (10 minutes) Slides 1 & 2 (Handout Pretest)
- Introduction: University of Findlay & Rural Domestic Preparedness Consortium (10 minutes) Slides 3 - 5
- Why does this partnership work? (10 minutes) Slides 6 - 8
- Pipeline Security vs. Public Awareness (5 minutes) Slides 9 & 17
- Threat Assessment and Risk Mitigation (10 minutes) Slides 10 - 16
- Outline of AWR-302 (5 minutes) Slide 18 - 22
- Where can you find local information? (5 minutes) Slides 23 - 25
- What makes pipelines vulnerable? (5 minutes) Slides 26 - 28
- Signs of Terrorism (8 minutes) Slide 29
- Scenario #1 & 5 (15 minutes) Slide 30 - 32
- Closing (7 minutes) Slide 33

Why All Hazards and Homeland Security?



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Pipeline Security for Rural Communities



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- Introductions
- Logistics
- Course Materials
 - Resources
 - Glossary
- Required Paperwork to Receive Certificate
 - Registration Form (with FEMA SID)
 - Pre and Post-Test
 - Evaluation Form (not mandatory but appreciated)

[Click to play RDPC Video](#)



All Hazards Training Center



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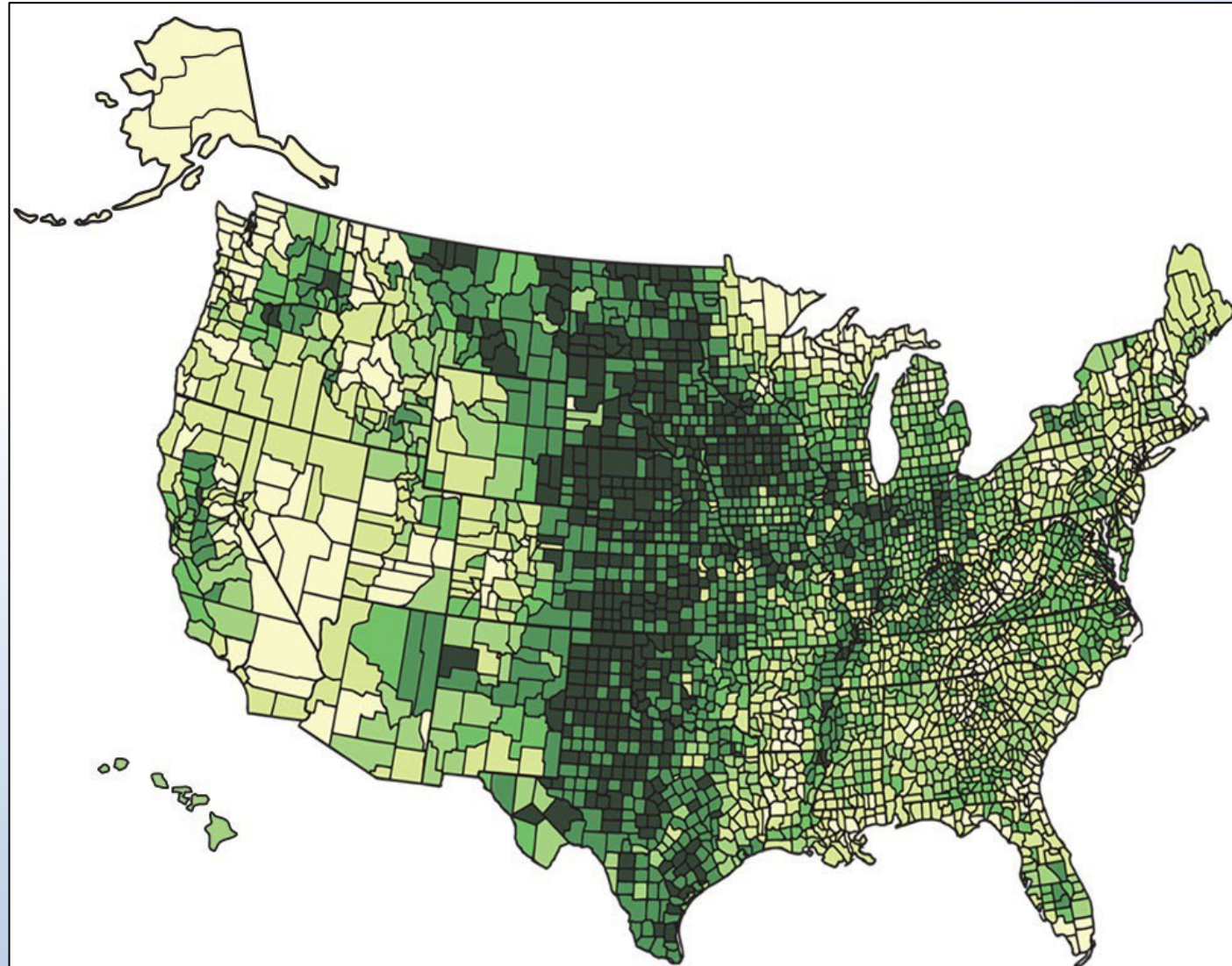


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Farmland/ County

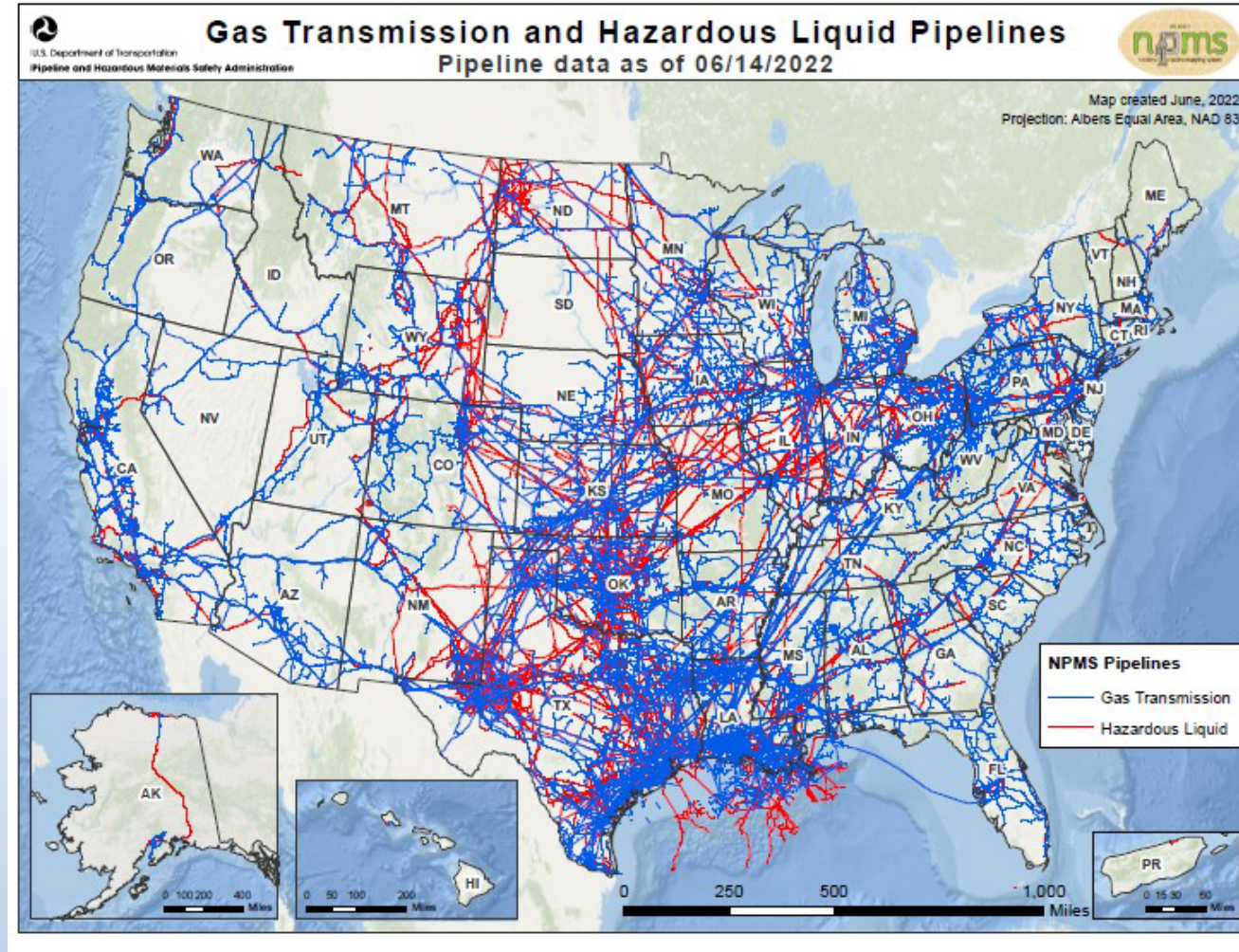


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United States Pipeline System



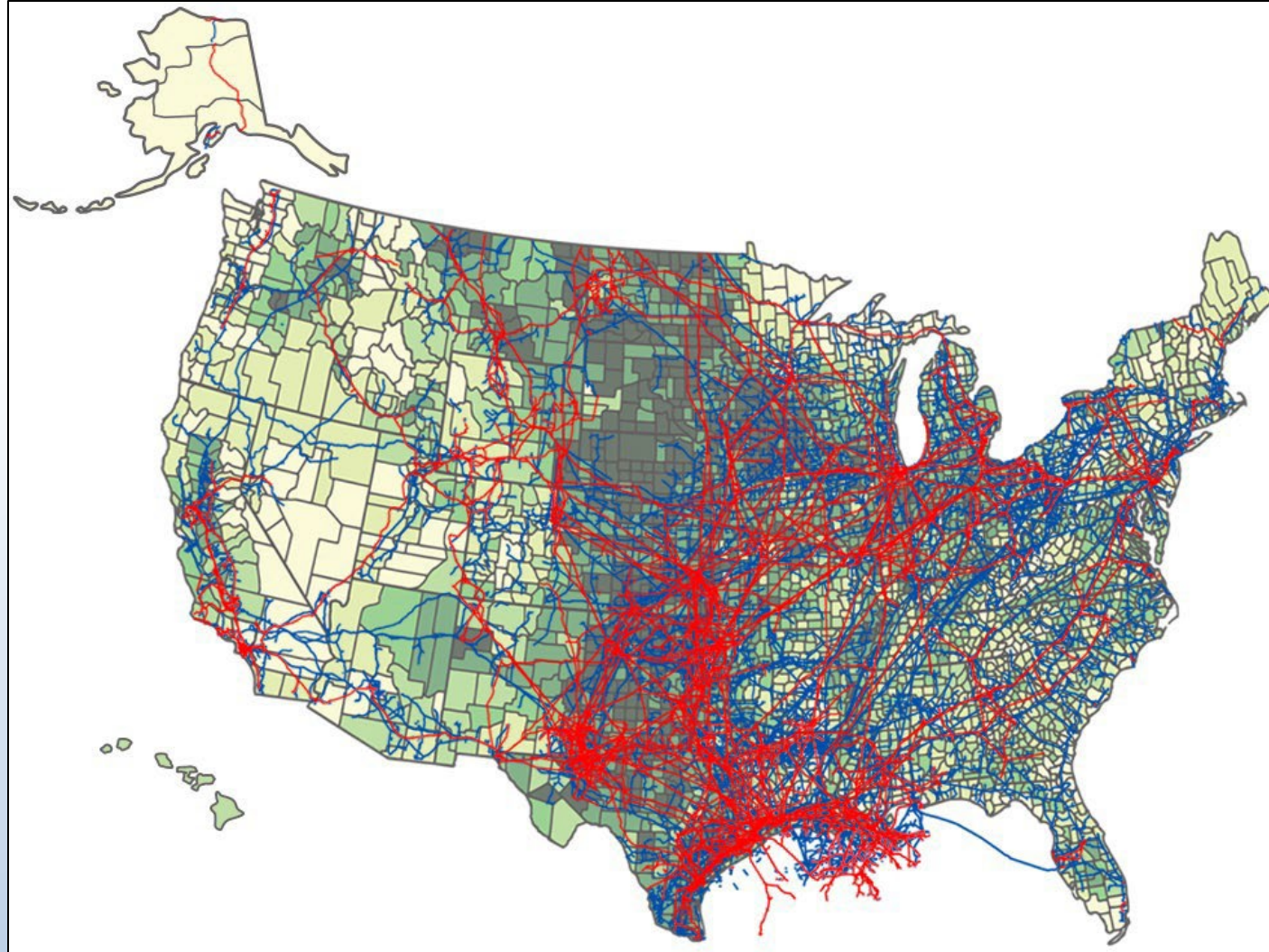
Source: National Pipeline Mapping System, PHSMA (06/14/2022)

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Rural America & Pipelines





Visit <https://ruraltraining.org/>

- AWR-Awareness Level Courses
 - AWR-302: Pipeline **Security** for Rural Communities
- MGT-Management Level Courses
- PER-Performance Level Courses
- Virtual
- Web-Based Training

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Pipelines help keep the costs low for important consumer goods like gasoline, natural gas, and heating oils. Those lower prices provide a direct benefit to producers, distributors and manufacturers of all sizes across the supply chain.

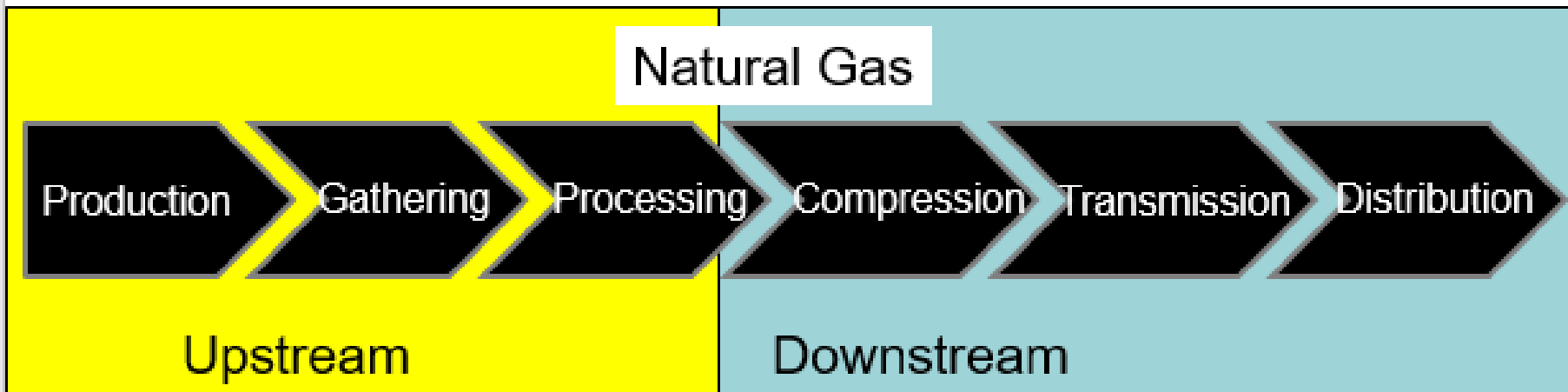
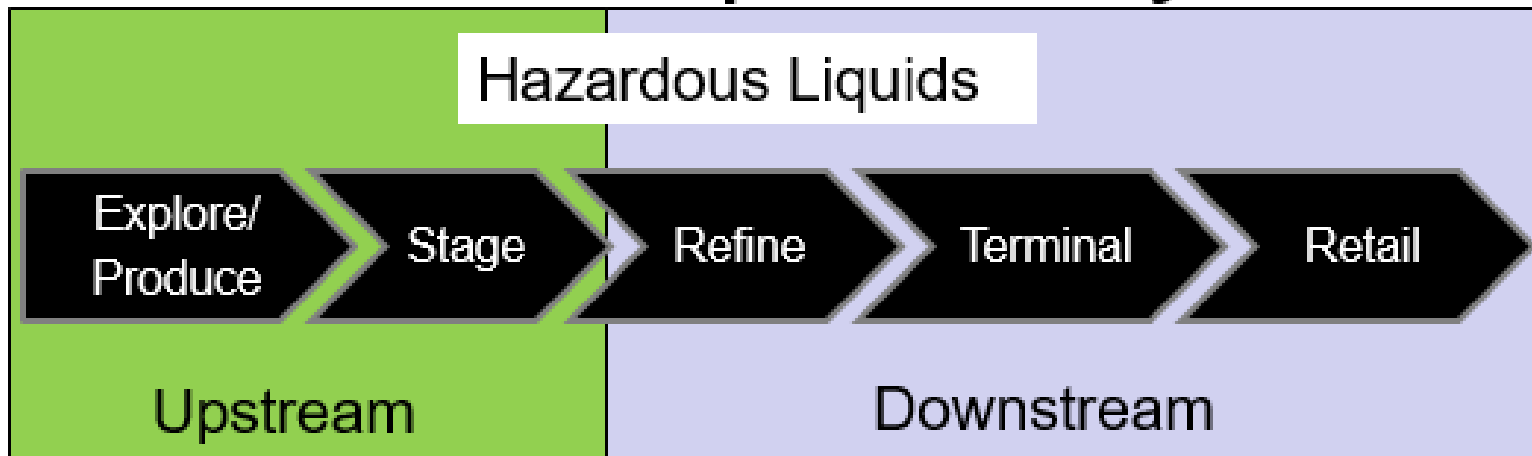


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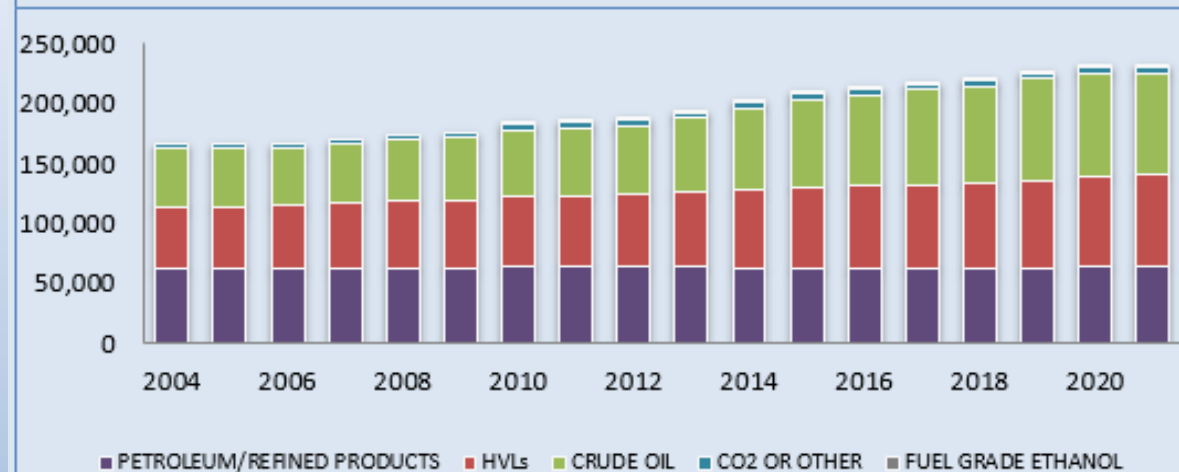
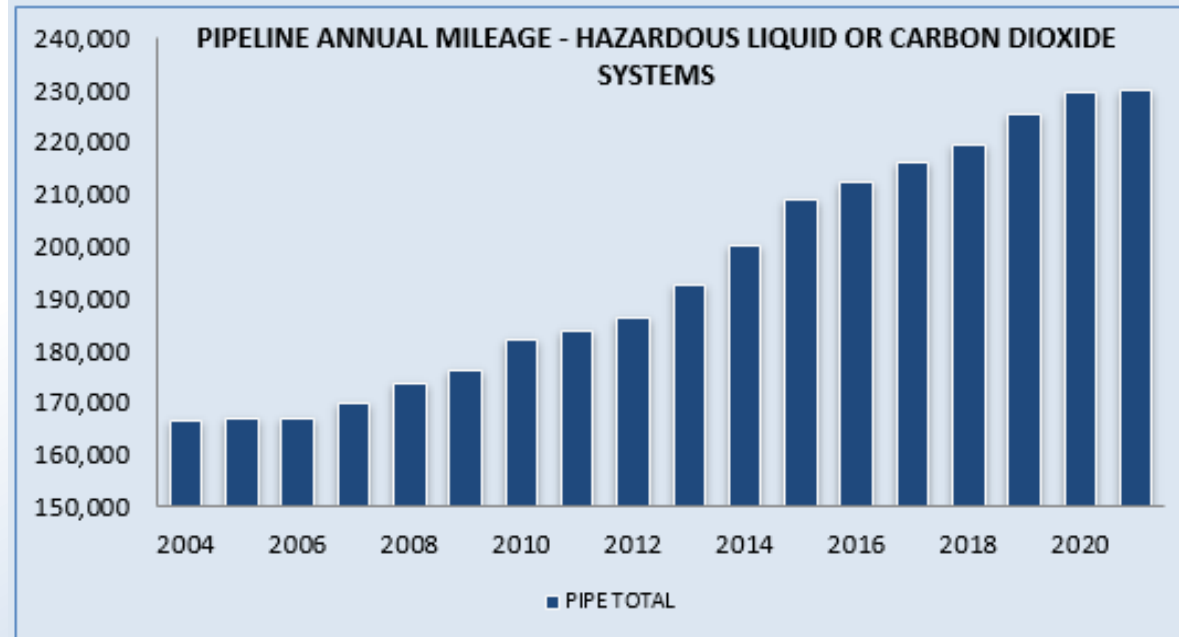
Interdependency



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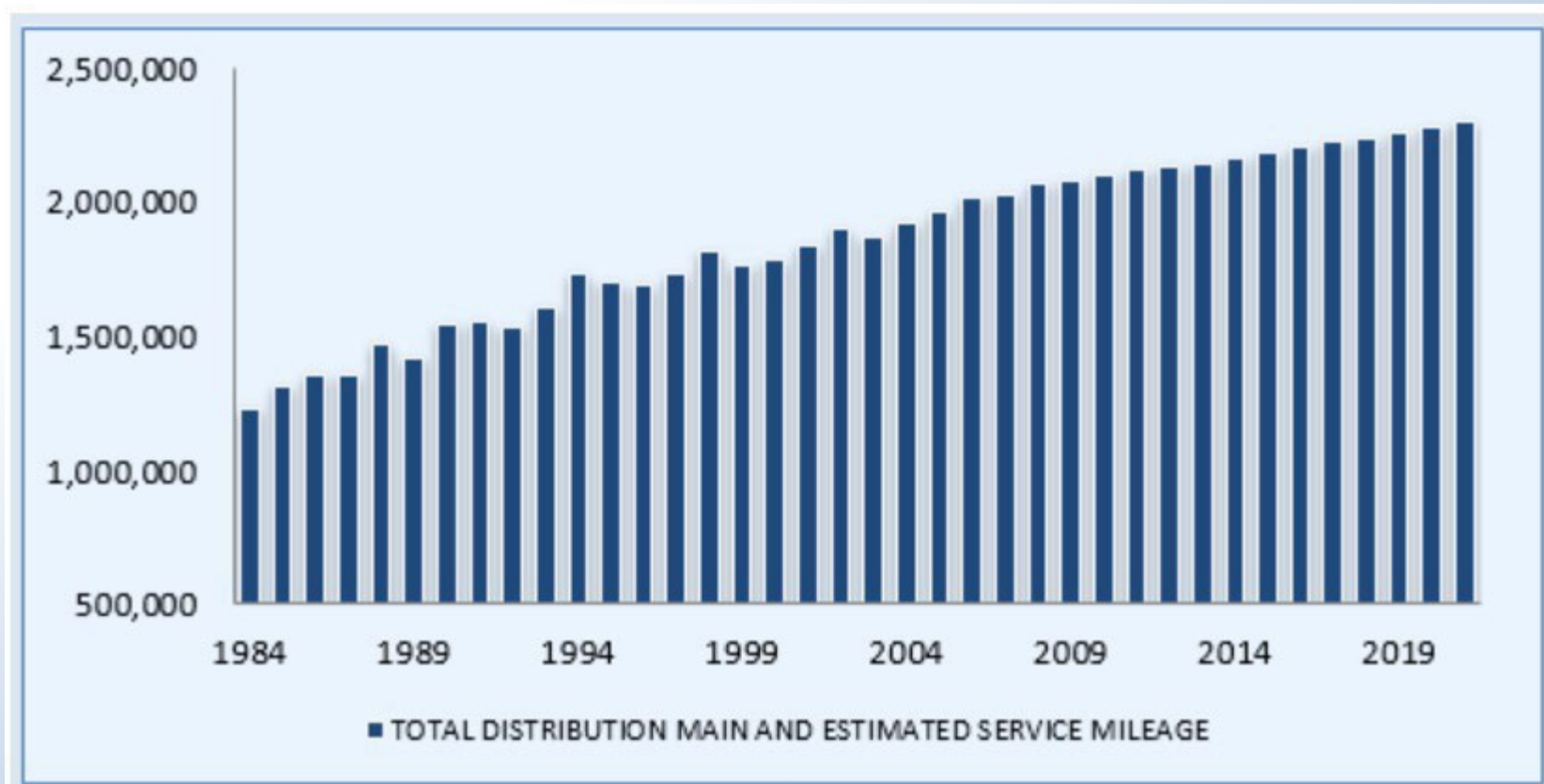
Annual Report Mileage for Hazardous Liquid or Carbon Dioxide Systems



Source: DOT PHMSA Data and Statistics July 1, 2022



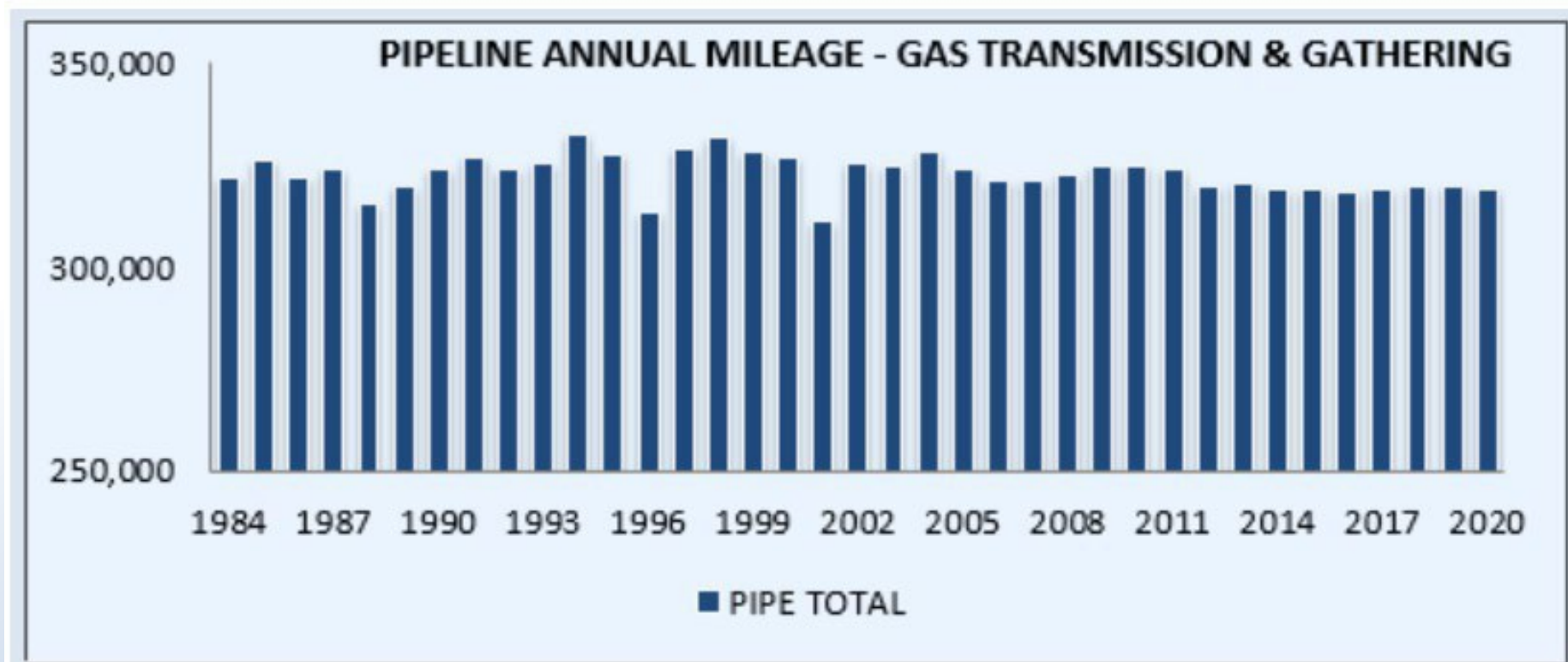
Annual Report Mileage for Gas Distribution Systems



Source: DOT PHMSA Data and Statistics July 1, 2022



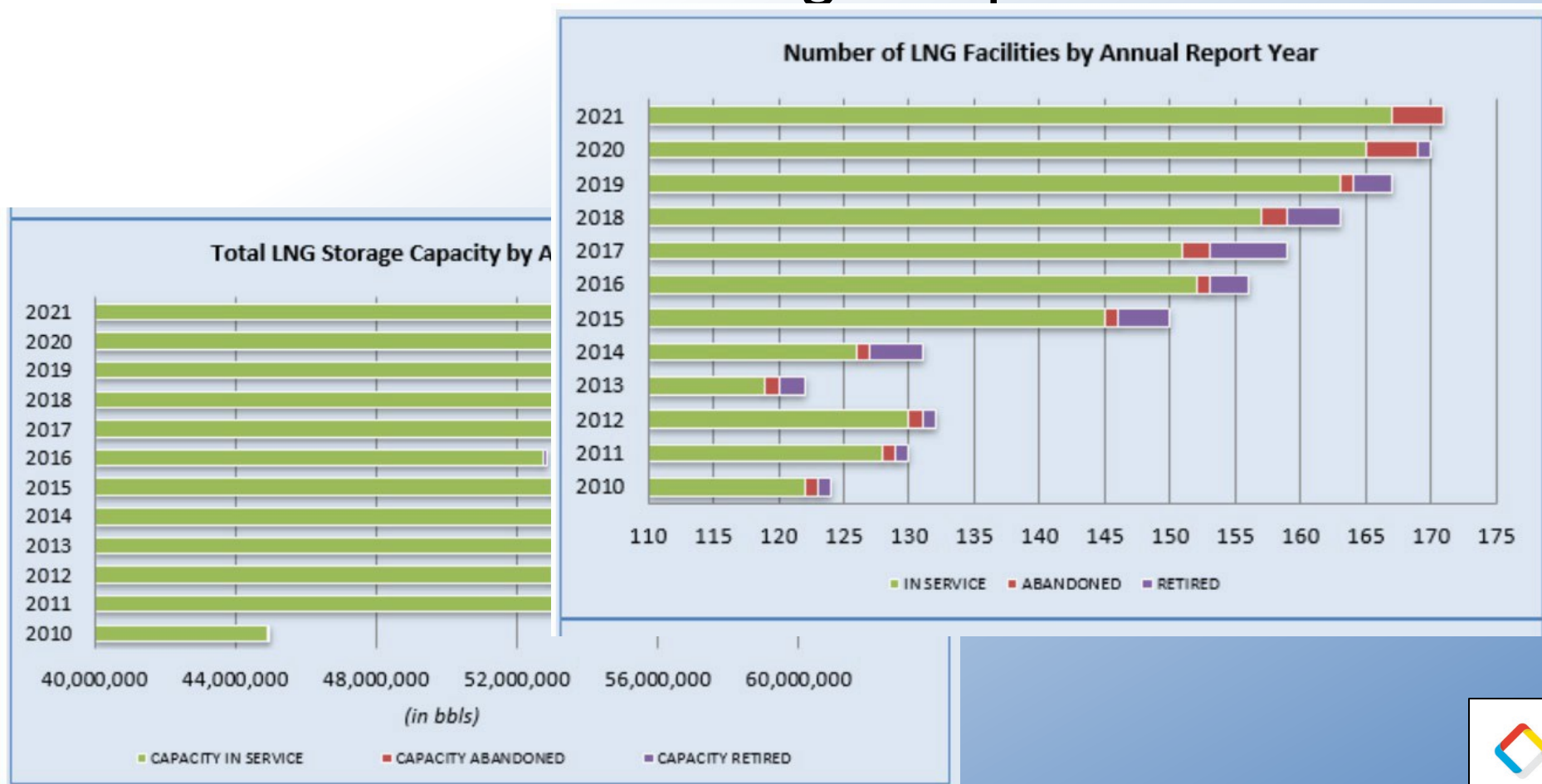
Annual Report Mileage for Gas Transmission and Gathering Systems



Source: DOT PHMSA Data and Statistics dated July 1, 2022



Liquefied Natural Gas (LNG) Facilities and Total Storage Capacities





AWR-302: Pipeline Security for Rural Communities

- The purpose?

Recognize security threats and identify mitigation strategies within their jurisdiction to ensure rural pipeline sector is secure and resilient.

- Bring Together Stakeholders:

- Law enforcement
- Fire service
- Emergency management agencies
- Local emergency planners (including industry)
- Public works
- Public officials
- Tribal agencies
- Private industry - pipeline/critical infrastructure



Overview of Course Learning Objectives

- Module 1 – Introduction and Course Overview
 - Identify the role of pipeline stakeholders in the pipeline security planning and response coordinated process.
- Module 2 – Importance of Pipelines
 - Identify local pipeline owners and operators by using the National Pipeline Mapping System and recognize issues related to interdependency.
- Module 3 – Pipeline Basics
 - Recognize and make use of the terminology used in the pipeline industry, recognize the basic system components, the type of materials that flow through the pipelines and identify pipelines in the field.



Overview of Course Learning Objectives

- **Module 4 – Government Roles and Responsibilities in Pipeline Security**
 - Identify the roles and responsibilities of governmental agencies as it relates to pipeline security as well as specific governmental security programs that impact pipeline security.
- **Module 5 – Industry Roles and Responsibilities in Pipeline Security**
 - Identify the roles and responsibilities of pipeline industry and trade associations as it relates to pipeline security as well as specific industry programs.
- **Module 6 – Pipeline Incidents / Security Threats**
 - List factors that make pipelines vulnerable to attacks, recognize current threats, and describe the criminal penalties for willfully damaging pipelines and associated components.



Overview of Course Learning Objectives

- **Module 7 – Indicators of Suspicious Activity at a Pipeline**
 - Identify indicators of suspicious activity, recommend action to report suspicious activity, and identify man-made activities that threaten pipelines.
- **Module 8 – Pipeline Security Scenario-Based Activity**
 - Demonstrate effective threat assessment and identify mitigations strategies and assess outcomes based on a scenario. In addition, utilize the pocket guide job aid for planning and response coordination.
- **Module 9 – Post-Test and Course Evaluation**
 - Complete a post-test and course evaluation



How to get local information




<https://www.npms.phmsa.dot.gov/>



Get your local list!

Access Pipeline Maps and Information

- ▶ What is the difference between PIMMA and the Public Map Viewer?
- ▶ Launch the Public Map Viewer
- ▶ Find who's operating pipelines in your area (Operator Directory)
- ▶ Download Offshore Pipeline Operator Information
- ▶ Download nationwide PDF map
- ▶ **Download summary of active pipeline mileage by county**
- ▶ View pipeline operator information from PHMSA



Looking for pipeline GIS data?

- ▶ What GIS data may I access?

Public Map Viewer

PIPELINE MAPS FOR THE GENERAL PUBLIC – NO PASSWORD REQUIRED

[About Public Map Viewer](#)

[Use Public Map Viewer](#)

Request GIS Data or Information

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U.S. and State Specific Data

U.S. Department of Transportation | Pipeline & Hazardous Materials Safety Administration

Pipeline Safety Stakeholder Communications
Pipeline Safety Connects Us All

Home | General Public | Emergency Officials | Local Officials | Excavators | Property Developer/Owner | Pipeline Safety Advocates | State Regulators | Federal Agencies | Industry | Contact Us

Community Toolbox

Pipeline Safety Connects Us All

In August 2017 PHMSA submitted to Congress the report titled "A Study on Improving Damage Prevention Technology." Also see [Appendix A](#) to the Report, regarding PHMSA-Supported Research and Development Projects and its Competitive Academic Agreement Program.

PHMSA has renamed its CATS program to "Community Liaison Services" to more appropriately align with current roles and responsibilities and better interface with various stakeholders.

PHMSA has released the Public Awareness Program Working Group (PAPWG) SWOT Report of Key Findings to Support Improving Public Awareness.

PHMSA has created an [interactive map of reportable pipeline incidents caused by excavation damage](#).

The U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration (PHMSA) Office of Pipeline Safety (OPS) is the federal safety authority for ensuring the safe, reliable, and environmentally sound operations of our nation's pipeline transportation system. An important component of OPS's mission is to promote pipeline safety communication and education.

Pipeline safety is a responsibility shared by all stakeholders. Community and pipeline safety is improved through active stakeholder

What's New

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

Fall and Winter Call 811 before you dig.

WARNING NATURAL GAS PIPELINE

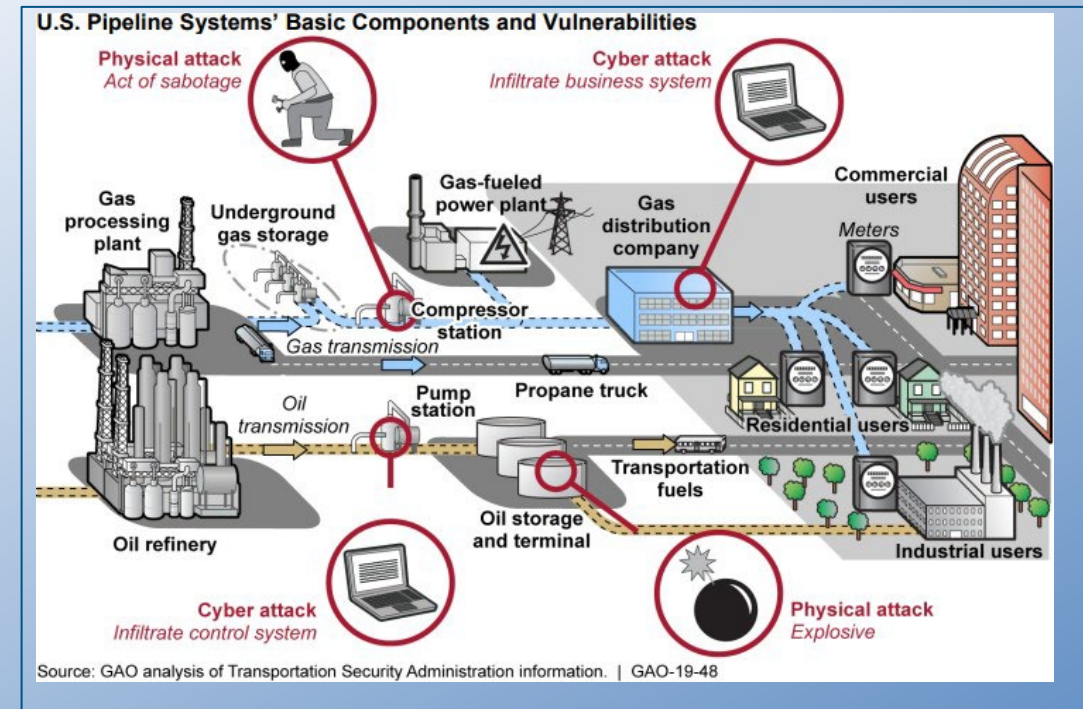
WARNING PETROLEUM

- State Specific Report Handout

<https://primis.phmsa.dot.gov/comm/Index.htm>

Factors that Make Pipelines Vulnerable to Attacks

- Difficult to have surveillance for entire pipeline
- Large amounts of information available to public
- Clearly marked
- Disruption to supporting infrastructure could affect pipeline





Effects of Pipeline Disruptions

- Minor disruptions to pipelines
 - Increased prices for gasoline, diesel fuel
 - Increased prices for home heating oil, natural gas
- More prolonged disruptions
 - Widespread energy shortages
 - Inability to produce essential products
- Extreme disruption – catastrophic



Threats Within the United States

- International Terrorists
- Lone Wolves/Homegrown Violent Extremists
 - Difficult to detect
- Eco-Terrorists
 - Earth Liberation Front (ELF)
- Insiders
 - Disgruntled workers
 - Gained employment for sole purpose to disrupt
- Criminals seeking financial gain
- Third-Party Damage



Eight Signs of Terrorism - Video

Video used with the permission from the Colorado Information Analysis Center (CIAC).



Scenario 1

A gas company service technician is conducting regular maintenance on an unmanned city gate station when he is approached by a neighbor. The neighbor tells him that yesterday she observed a vehicle pull up in front of the station and three men got out of the vehicle and walked around the station.

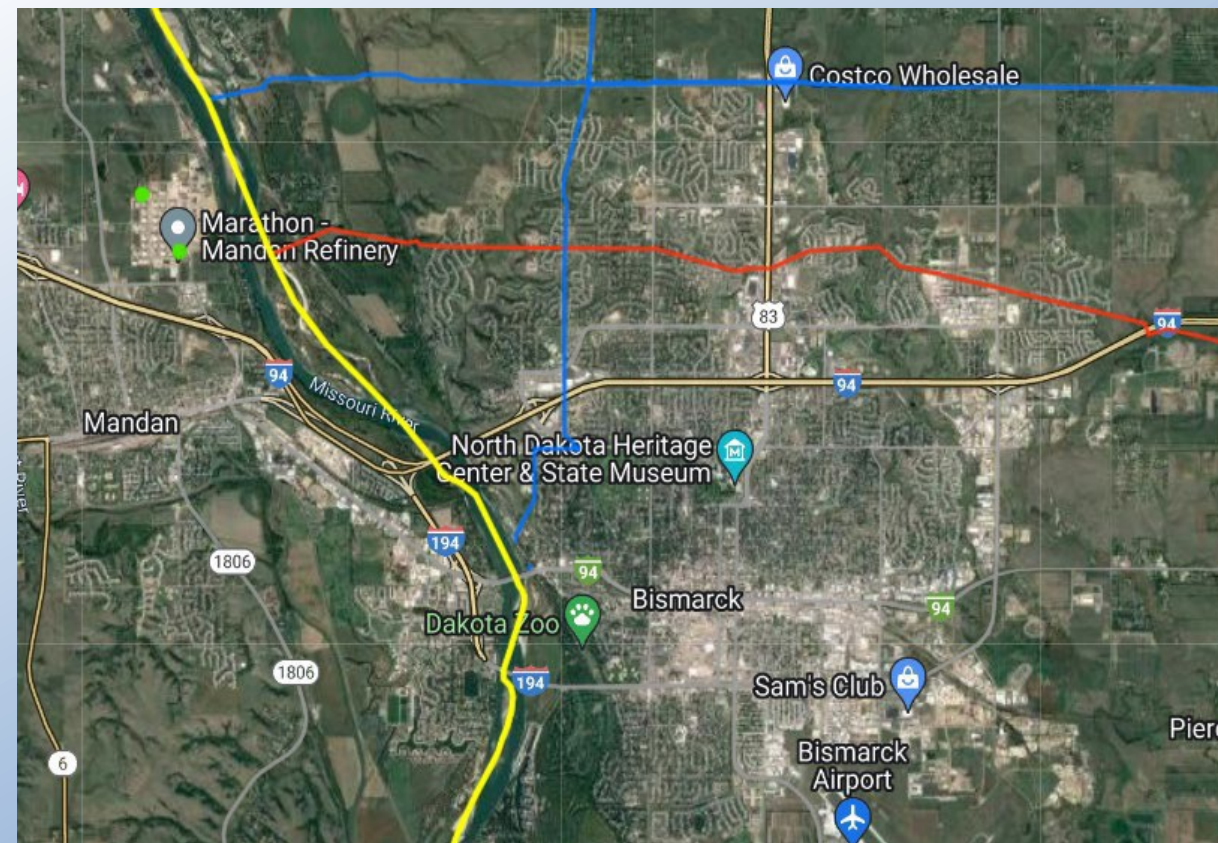


Scenario 1 – Group Discussion

- What action should the employee take based upon the information provided by the neighbor?
- Would any law enforcement agency be interested in this information? Why?
- Would any other agency, department, or company be interested in this information?

Scenario # 5 – What Could Happen Here?

- Site Specific Scenario
<https://pvnpm.phmsa.dot.gov/PublicViewer/>
- Critical facilities/infrastructure in the region
- Now – what if...
- And what would you do...



Questions



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