Pipeline and Emergency Responder Initiative (PERI)

RRT IV/RRT V Meeting

Covington, KY
October 18, 2018

Arthur O. Buff, P.E.
Community Liaison
PHMSA, Outreach and Engagement Division
Overview

- Current Pipeline Mileage
- New Administration Perspective
- Excavation Damage
- PERI Program
To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.
# Regulated Pipeline Systems

<table>
<thead>
<tr>
<th>System Type</th>
<th>Miles</th>
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<tbody>
<tr>
<td>Hazardous Liquid</td>
<td>212,189/ 7,578 Tanks</td>
</tr>
<tr>
<td>Gas Transmission</td>
<td>300,566</td>
</tr>
<tr>
<td>Gas Gathering</td>
<td>18,347</td>
</tr>
<tr>
<td>Gas Distribution (Mains &amp; Services )</td>
<td>2,212,189</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,743,291</strong></td>
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</tbody>
</table>

| Liquid Natural Gas                                     | 152 Plants/ 227 Tanks     |
| Underground Natural Gas Storage, (First annual reports in 2018) | ~400 Facilities |
Administration Take on Rules

"To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives."
Drilling in ANWR
(2,000 Acres out of 19 million)

See The Point?

"To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives."
“To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.”
Prudhoe Bay Oil Field, North Slope
“To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.”
Excavation Damage

Should I have called 811?
Excavation Damage

- 1995-2015: 16.8% incidents
  - 32.3% injuries
  - 37.7% fatalities

“Damages to buried utilities cost the U.S. $1.5 billion in 2016.”

“To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.”
Excavation Damage – Pelham, AL

**October 31, 2016**

- 36” gasoline line
- 1 person killed, 5 hospitalized
- 2\textsuperscript{nd} person died in hospital
- Subcontractor working for Colonial
- Track hoe used to excavate TOR fitting
- Result of 336,000 gallon release
- NTSB investigating

“burning geyser of gasoline, like Old Faithful with smoke and fire"
• Largest gasoline pipeline in U.S.
• 55,000,000 gpd
• 40-50% gasoline used
• Out-of-service 6 days
Excavation Damage – Pelham, AL

“To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.”
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PERI Program

- What is PERI?
- Why is PERI needed?
- How did PERI get started?
- Where are we now?
What is a Pipeline Emergency Responders Initiative (PERI)?

Public-private partnership among emergency response organizations and pipeline operators to improve emergency response.
What Do We Want to Accomplish with PERI?

✓ Enhance responders understanding of pipeline risks and hazards;

✓ Strengthen relations in the interest of public safety;

✓ Improve management of pipeline emergencies nationwide
Regulatory Requirements

Emergency Plans - 192.615 and 195.402

• Written procedures for notifying appropriate fire, police, and other public officials of gas and liquid pipeline emergencies

• Establish and maintain liaison with appropriate fire, police, and other public officials

Public Awareness - 192.616 and 195.440

• Messages to emergency responders and public officials
Drivers for Change in GA

Some firefighters squeezing off gas lines when ruptured in AGLR footprint. Need to change behaviors

JULY 2010 Meeting of GPSC, GA Association of Fire Chiefs: No firefighter involvement on the issues affecting them

Increased industry focus on effectiveness of ER training & liaison

MARCH, 2008 GA Public Service Commission issues Final Rule: County-wide Gas Safety Plans to reduce confusion/duplication of efforts

SEPTEMBER 9, 2010 San Bruno: “What pipeline?” Are GA firefighters adequately informed?

MAY 15, 2012 First-ever GA Pipeline Operators & Emergency Responder Meeting
May 15, 2012 Meeting in Sandy Springs

- Hosted by Sandy Springs Fire Chief Jack McElfish
- Over 50 attendees
- Steering Committee formed
- Local media coverage
Advance the ability of Georgia emergency responders to manage pipeline emergencies through improved training, cooperation and communication with pipeline operators.
Goals and Objectives of PERIs

- Improve and sustain effective communication among emergency responders and pipeline operators
- Increase emergency responders’ awareness of pipelines in their jurisdictions
- Establish a baseline to evaluate pipeline emergency response preparedness
- Identify weaknesses in existing regulatory and emergency response programs and develop solutions
- Develop a sustainable comprehensive pipeline emergency response training program
Alternative Responder Training

- Pipeline emergency training transferred to fire-based training services
- Enhances credibility
- Maximizes emergency responder participation
- Recognition of specific knowledge needs of responders
- Eliminates one-size-fits-all approach to training
## Training Tailored to Rank and Position

<table>
<thead>
<tr>
<th>Course</th>
<th>Position/Rank</th>
<th>Content</th>
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<tbody>
<tr>
<td>Train the Trainer 16-hour</td>
<td>Hazmat teams, command officers, trainers</td>
<td>In-depth focus on pipeline emergencies; instructor qualification</td>
</tr>
<tr>
<td>Command Module 4-hour</td>
<td>Law enforcement, EMS, emergency managers, fire chiefs</td>
<td>Provides strategic awareness; Focused on NIMS &amp; ICS, unified command, Incident Action Plan, pre-planning for incidents</td>
</tr>
<tr>
<td>Company Officer &amp; Firefighter Module 8-hour</td>
<td>Rank &amp; file firefighters (volunteer or paid)</td>
<td>Focused on scene safety, initial incident command, size-up, prompt notification of operator, assistance requests, ordering of resources</td>
</tr>
<tr>
<td>911 Dispatch Module 4-hour</td>
<td>E-911 operators</td>
<td>Provides detailed information on pipelines in jurisdiction, product risks and hazards, questions to ask when pipeline emergency reported, what to communicate to operators &amp; ERs</td>
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</tbody>
</table>
Tim Butters Addressing Georgia Fire Chiefs
PHMSA’s Finest
GPERI Emphasis on Prevention

• Response important, but prevention says lives

• Damage Prevention content incorporated into “Pipeline Emergencies” course
  o Role & importance of 811
  o Underground utility locating process
  o Excavation awareness (how to tell if a line has been located at a working job site)
Status of PERIs

U.S. Department of Transportation
Pipeline and Hazardous Materials Safety Administration
To Protect People and the Environment From the Risks of Hazardous Materials Transportation
First Responders Near Pipeline Prep For An Unlikely Event: ‘One Hell Of A Boom’

By AMY SISK  •  SEP 26, 2018

Chief Bob Rosatti of the Forbes Road Volunteer Fire Department stands alongside a marker for the Texas Eastern Transmission Pipeline, which exploded here in Salem Township in 2016.
The Value

- Provide sustainable training for first responders
- Place emphasis on pipeline emergency response training
- Establish alternative pipeline emergency response training delivery methods
- Enhance operator emergency responder outreach and liaison programs
- Promote responder awareness of their role in reducing excavation damage incidents

Prepared by
Oklahoma Pipeline Emergency Response Initiative Committee

www.okperi.org

Advance the abilities of the Oklahoma emergency responders and pipeline operators to manage pipeline emergencies through improved training, cooperation, and communication.

“To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.”
What is the mission of OKPERI?
Advance the abilities of the Oklahoma emergency responders and pipeline operators to manage pipeline emergencies through improved training, cooperation, and communication.

Why participate in OKPERI?
Pipeline operators and emergency responders have agreed that there is a need to collaborate on pipeline emergency response training. Life safety, incident stabilization, and property conservation are key objectives to the pipeline emergencies. This initiative will provide the ability to consolidate the many efforts that currently exist into a single program.

Who are the stakeholders of OKPERI?
Oklahoma pipeline operators, emergency officials, state and federal regulators, public officials, OKIE811, FBI/Homeland Security, tribal governments, etc.

Emergency Responders
The OKPERI provides for emergency responders to take part in the development of pipeline emergency response training alongside pipeline operators. This relationship will allow for the creation of quality training that is truly relevant to the emergency responders and the needs of pipeline operators in their response areas. With quality training, first responders will have a better understanding of their roles and tactics during a pipeline response, as well as the need to prepare and plan for pipeline emergency response.

"OKPERI is more than a group of agencies and organizations that respond to pipeline emergencies. OKPERI is an opportunity for those agencies to come together and agree on a common path."
Steve George, OSU-FST Technical Programs Manager

Cynthia Quarterman, former U.S. Department of Transportation Administrator states, “The Pipeline and Hazardous Material Safety Administration (PHMSA) recognizes that each state is unique and has its own set of challenges in protecting the public and the environment from the risks associated with transporting hazardous materials in pipelines. However, we are highly encouraged by the success of the Georgia initiative and encourage other states to develop similar programs tailored to their needs.”

Steve George, OSU-FST Technical Programs Manager states, “OKPERI is more than a group of agencies and organizations that respond to pipeline emergencies. OKPERI is an opportunity for those agencies to come together and agree on a common path: a path that each can take; a path that will arrive at a common goal, while taking steps that must be made for the individual organizations. OKPERI truly is about traveling “common ground.”

How is the mission carried out?
The mission is carried out by providing training developed, managed and documented through Oklahoma State University - Fire Service Training (OSU-FST) and Council on Law Enforcement Education and Training (CLEET), and designed for Emergency Officials and those responding to a pipeline emergency. This improves the engagement of the Emergency Responders by involving them in the process of determining the training locations and travelling as necessary.

"To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives."
PERI Workgroup

• Let operators know may meet regulatory requirements if PERI participation

• Review regulatory requirements and issue guidance/ADB

• Outreach strategy
Challenges Moving Forward with PERI

- Providing sustainable pipeline safety training for ERs
- Overcoming low priority placed on pipeline emergencies training
- Key emergency responder participation
- Meeting logistics
- Increased demands on time of ERs
- Establishing baseline to measure progress
- Establishing entity and funding to sustain program
✓ PHMSA’s PERI Website

✓ PHMSA Community Liaison contact info:
https://primis.phmsa.dot.gov/comm/cats.htm
Arthur O. Buff, P.E.
Community Liaison Manager
PHMSA – Office of Pipeline Safety
Southern Region
arthur.buff@dot.gov
404-226-6153