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First Responder Collaboration - PERI

Utility Public Safety Alliance 2018 Regional Meeting Columbia, SC

February 7, 2017

Arthur O. Buff, P.E.

Community Liaison

PHMSA, Southern Region



U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

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



Overview

- **What is PERI?**
- **Why is PERI needed?**
- **How did PERI get started?**
- **Where are we now?**
- **Where do we go from here?**



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

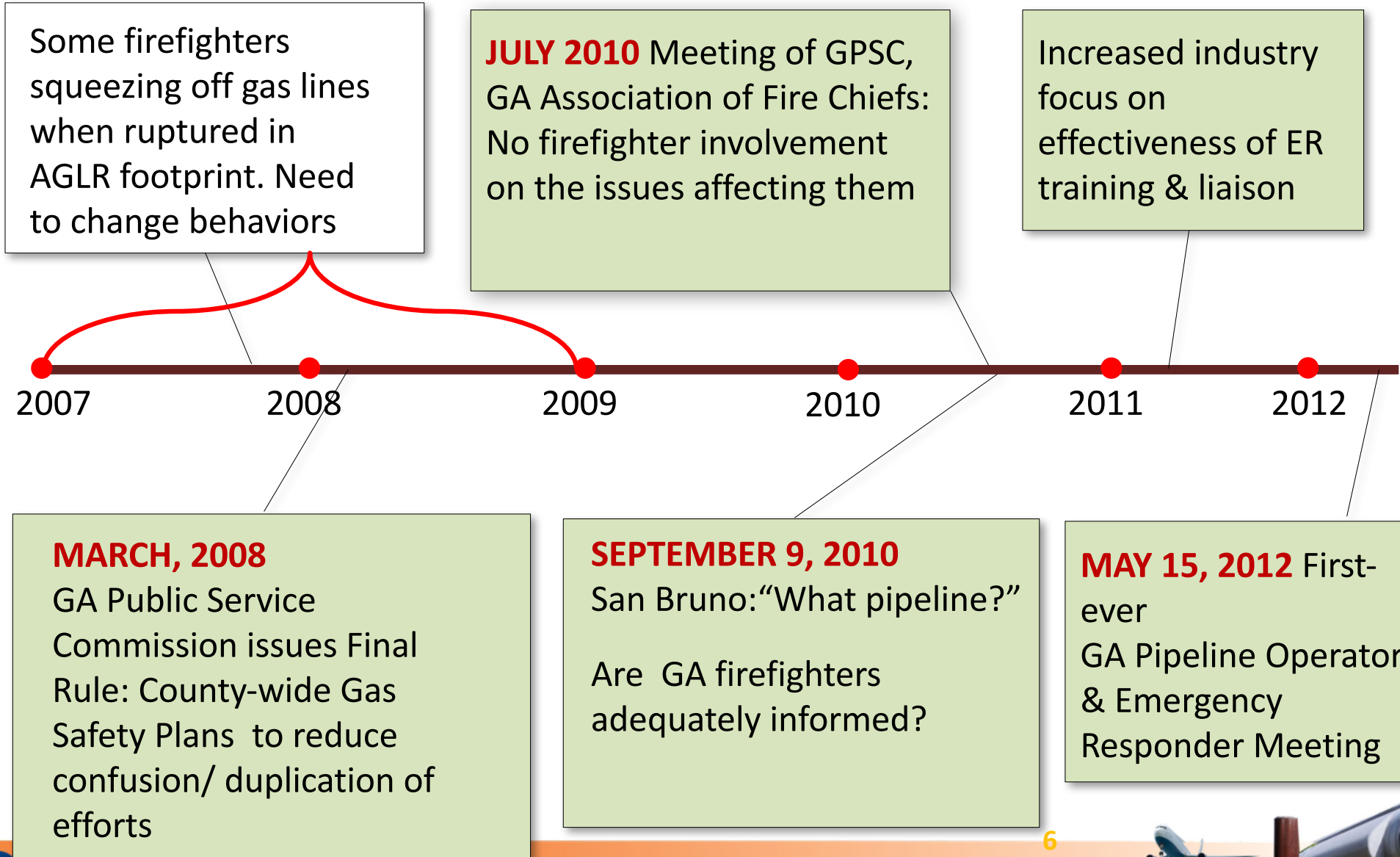


Public Awareness - 192.616 and 195.440

- Messages to emergency responders and public officials



Drivers for Change in GA



San Bruno Incident

- Population 41,114, 11 miles south of San Francisco
- September 9, 2010, 6:11 pm (PDT) – 30” gas line ruptured
- Crestmoor neighborhood at Earl Ave. and Glenview Dr.



- Crater 72 feet long, 26 feet wide
- 28 ft. section, 3,000 lbs., 100 feet
- 47.6 million ft.³ of gas released
- 38 homes destroyed, 70 damaged
- 8 fatalities and 58 injuries
- >900 emergency responders





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Ruptured section of pipe

Earl Avenue

Crater with exposed gas pipe

Glenview Drive looking south



May 15, 2012 Meeting in Sandy Springs

- **Hosted by Sandy Springs Fire Chief Jack McElfish**
- **Over 50 attendees**
- **Steering Committee formed**
- **Local media coverage**



Steering Committee Members

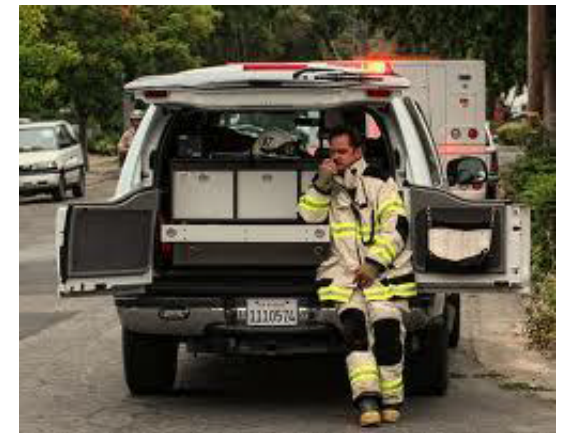


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GPERI Mission Statement

Advance the ability of Georgia emergency responders to manage pipeline emergencies through improved training, cooperation and communication with pipeline operators



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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

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



Tim Butters Addressing Georgia Fire Chiefs



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PHMSA's Finest



Colonial Pipeline Display



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GPERI Emphasis on Prevention

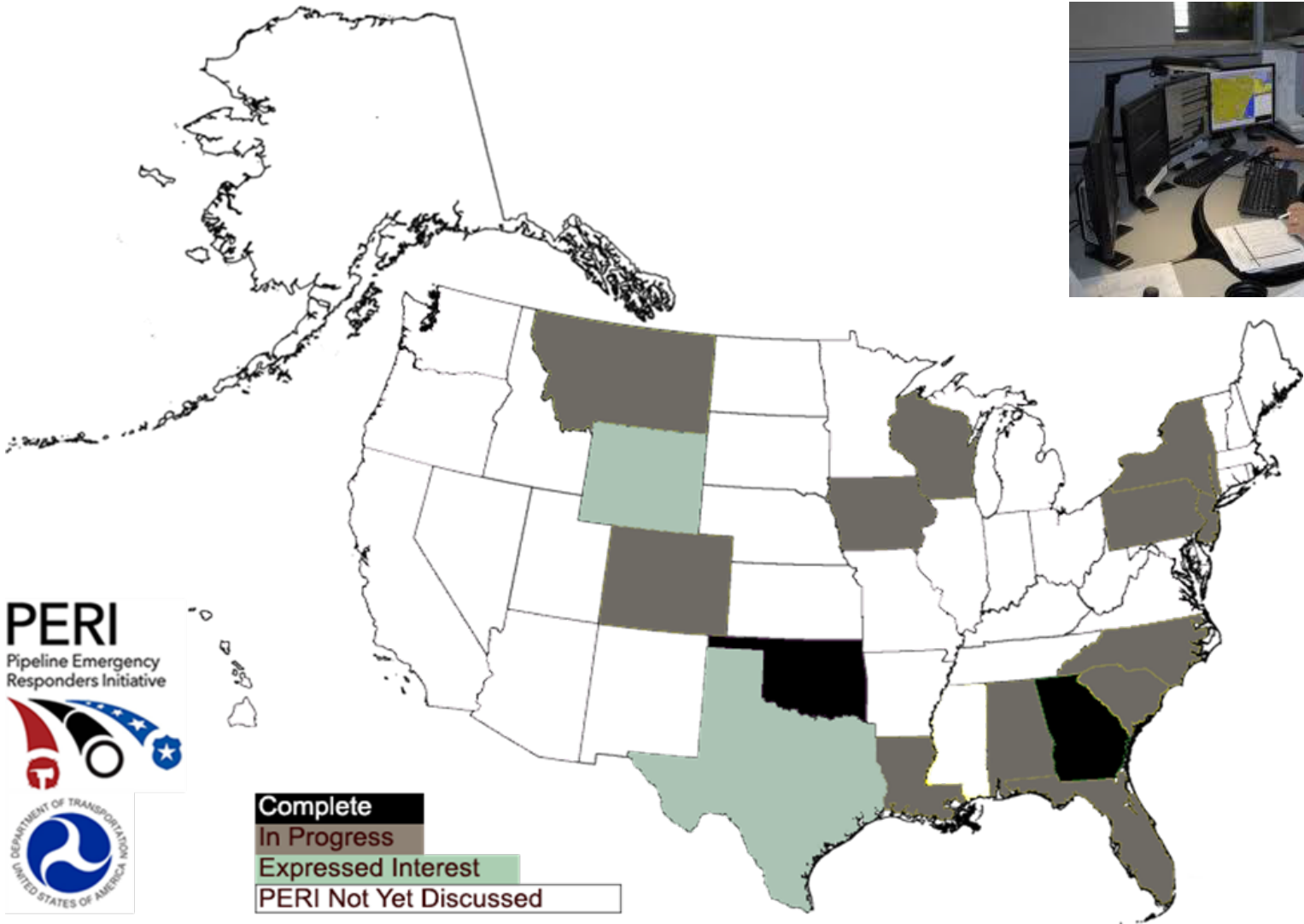
- **Response important, but prevention says lives**
- **Damage Prevention content incorporated into “Pipeline Emergencies” course**
 - **Role & importance of 811**
 - **Underground utility locating process**
 - **Excavation awareness (how to tell if a line has been located at a working job site)**



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Status of PERIs



Complete
In Progress
Expressed Interest
PERI Not Yet Discussed

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PERI Status by State

	Kick-Off Date
Georgia	May 15, 2012
Alabama	June 29, 2015
South Carolina	November 2, 2015
North Carolina	August 11, 2015
Oklahoma	July 21, 2016
Florida	4 dates in April 2017
New Jersey, Pipeline Working Group for NJ Utility Statewide Safety Team	April 26, 2017
Iowa	June 6, 2017
Pennsylvania	July 6, 2017
New York	August 1, 2017
Louisiana	August 31, 2017 (Harvey)
Colorado	TBD (Oct. 2017)



PERI Logos



www.phmsa.dot.gov/pipeline/safety-awareness-and-outreach/PERI



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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**



Funding

- Spend money “smarter”
- Create budget based on program goals
- 36 operators participate in GA
- \$125 to \$38,000



PERI Assistance



\$300,000
interagency/intra-agency
agreement with VOLPE –
executed August 23rd

**VOLPE – The National Transportation Systems Center –
Cambridge, MA**



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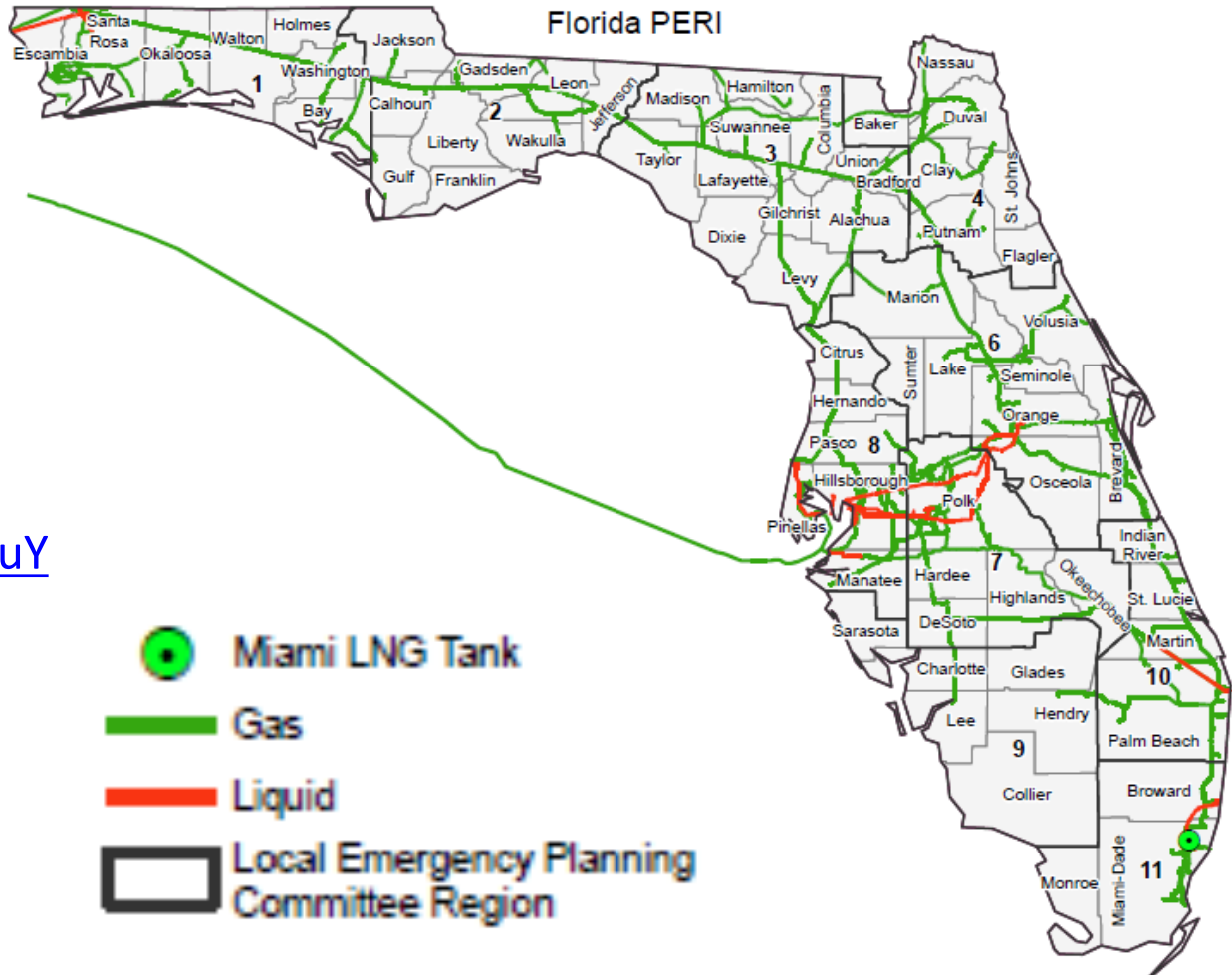
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Other Deliverables

- Standard Operating Guide
- Logo
- Maps
- Website Redevelopment
- PERI Overview
- Movie/Presentation

<https://youtu.be/A7mdbwvRMuY>



For Official Use Only



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.okie811.org



THE VALUE OF MEMBERSHIP



www.okperi.org

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



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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, OKIEB11, FBI/Homeland Security, tribal governments, etc.



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."

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

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.



Operator Concerns

- **Emergency responder participation**
- **Is PERI mandatory?**
- **No one on 1162 workgroup part of PERI**
- **Regulatory credit for participating in PERI**
- **Cost too high if in multiple states (based on GA)**



Why will PERIs Succeed?

Each group receives specific benefits, but all groups involved share a common goal



Speaker Reminder

Only 13 slides remaining

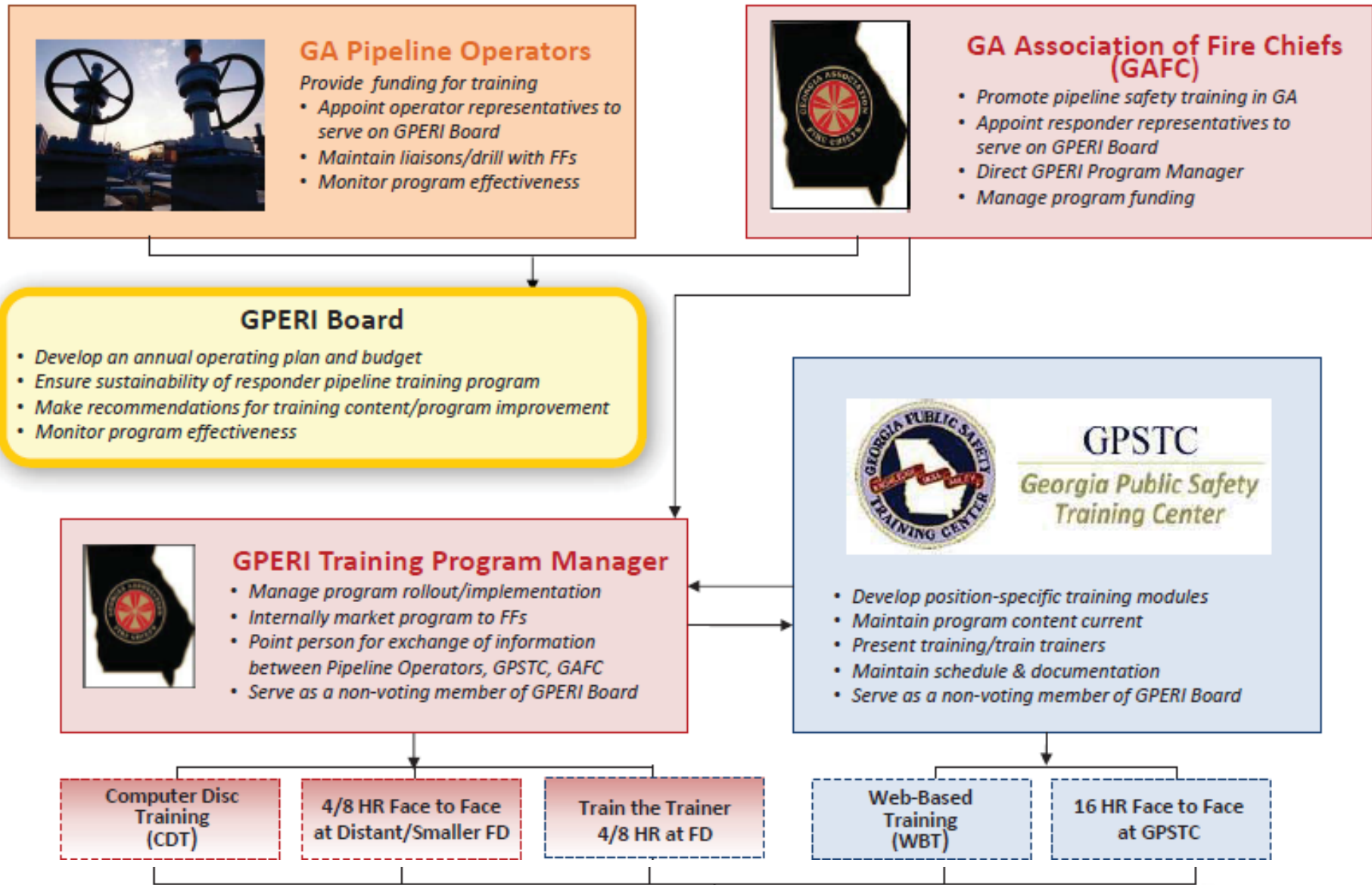




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National Pipeline Mapping System

NPMS NATIONAL PIPELINE MAPPING SYSTEM

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The National Pipeline Mapping System contains information about hazardous liquid and gas transmission pipelines under the jurisdiction of **US DOT PHMSA**
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