



APGA Security and Integrity Foundation

**Kansas Corporation Commission
Annual Gas Pipeline Safety TSI Seminar
October 26, 2007
Salina, Kansas**

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Outline of Presentation

- Background
- Summary of Work
- Current Status
- What's Next



Background of SIF



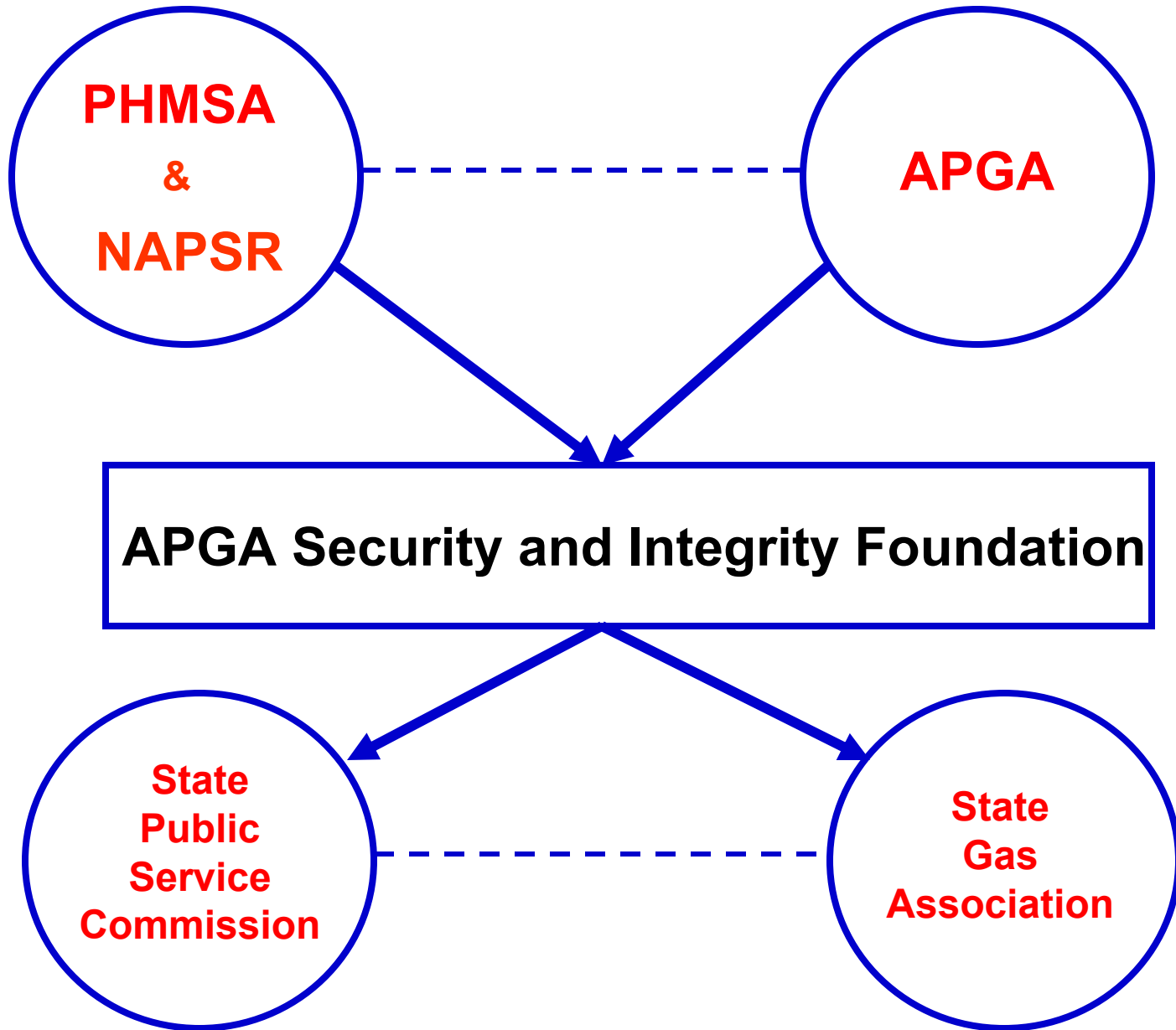
Security and Integrity Foundation

- Established in October 2004 by APGA
- 501(c)(3) not-for-profit corporation
- Created to promote operational integrity, safety and security
- Prevent, mitigate and repair damage to its system
- Demonstrate compliance with regulatory and industry standards
- **Focus on small natural gas operators, LP operators and master meter operators**



Report Language – FY05 Appropriations Bill

Small Gas Distribution Systems.—The conferees encourage the Office of Pipeline Safety to work closely with and **assist existing organizations and foundations in efforts to develop and deliver educational tools and materials to small gas utilities.** The conferees support those efforts focused on operating and maintenance procedures that will help prevent incidents, rapidly and safely control hazards and restore service in the event of accidental or intentional damage to pipelines.



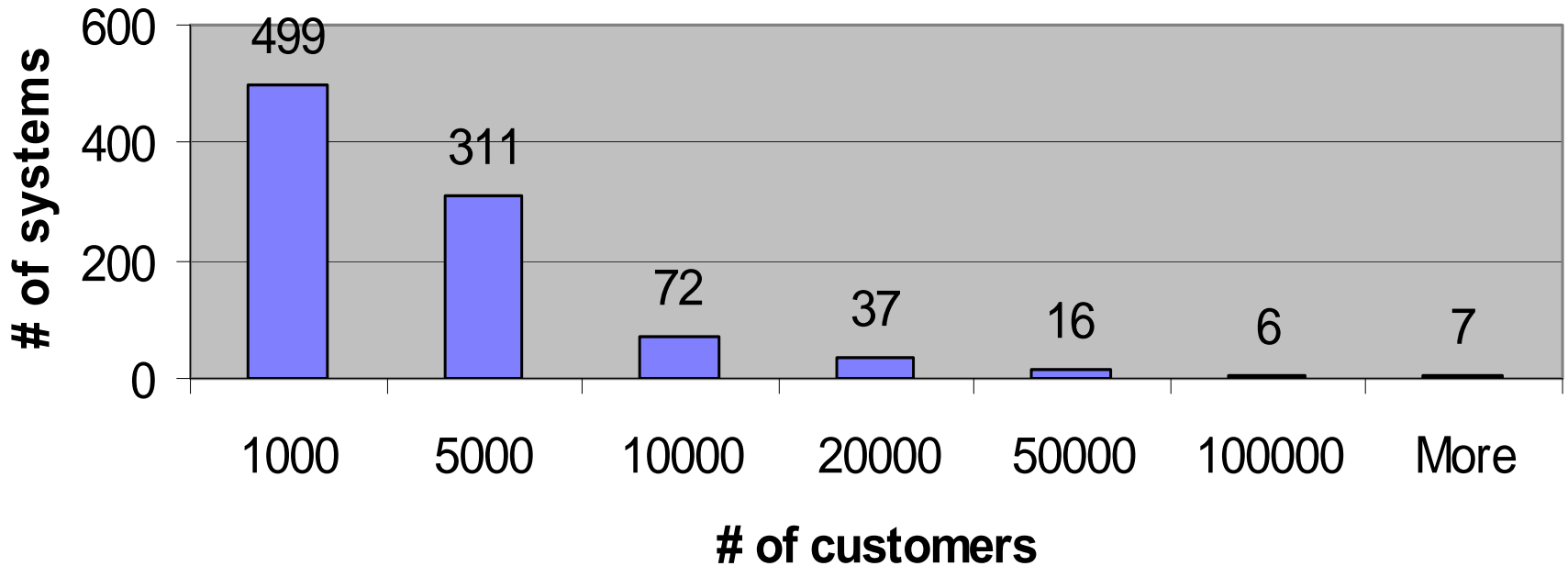


Why focus on small gas utilities?

Meters Served by Munis

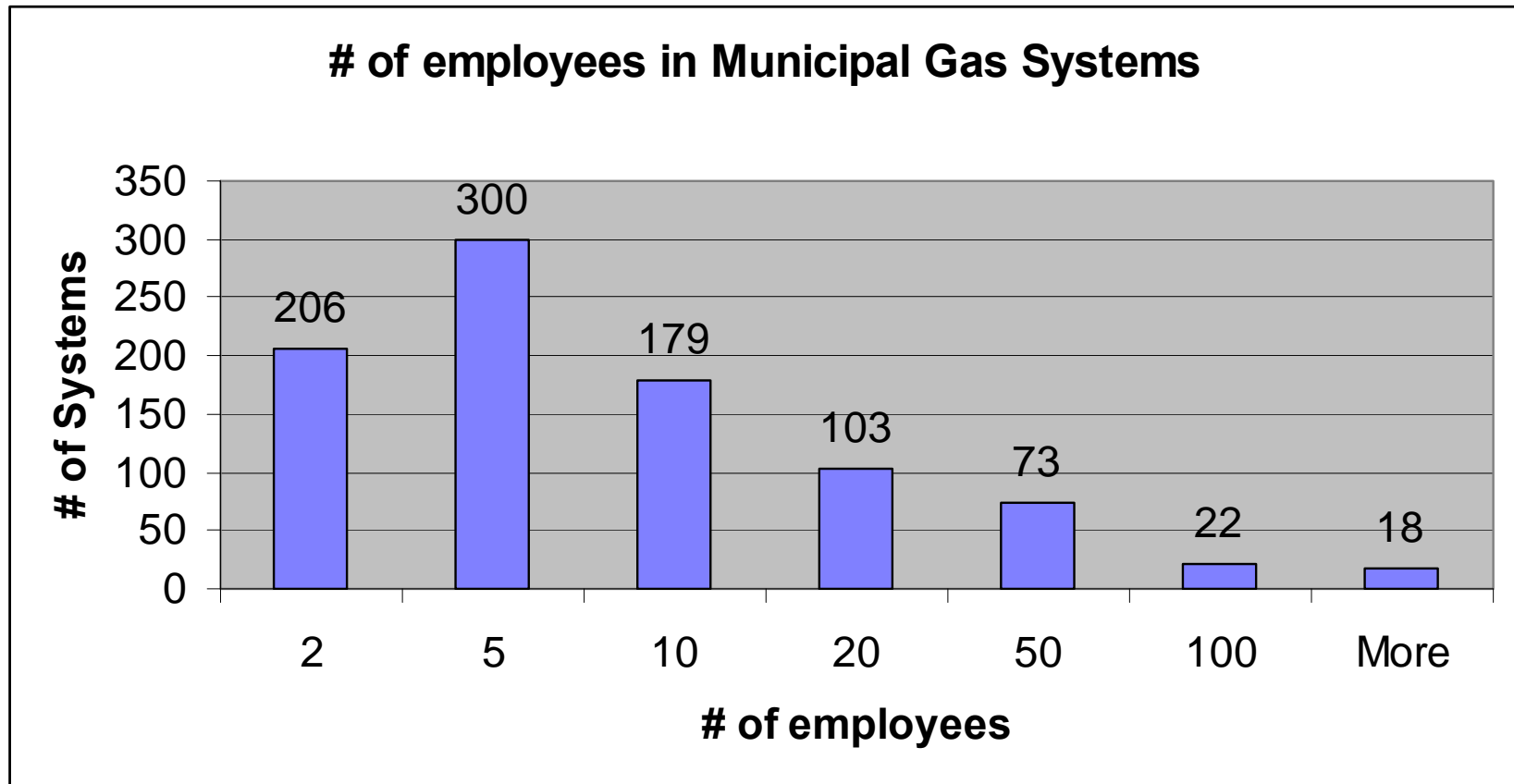
Nearly 90% deliver to < 5000

Municipal gas system by customer count

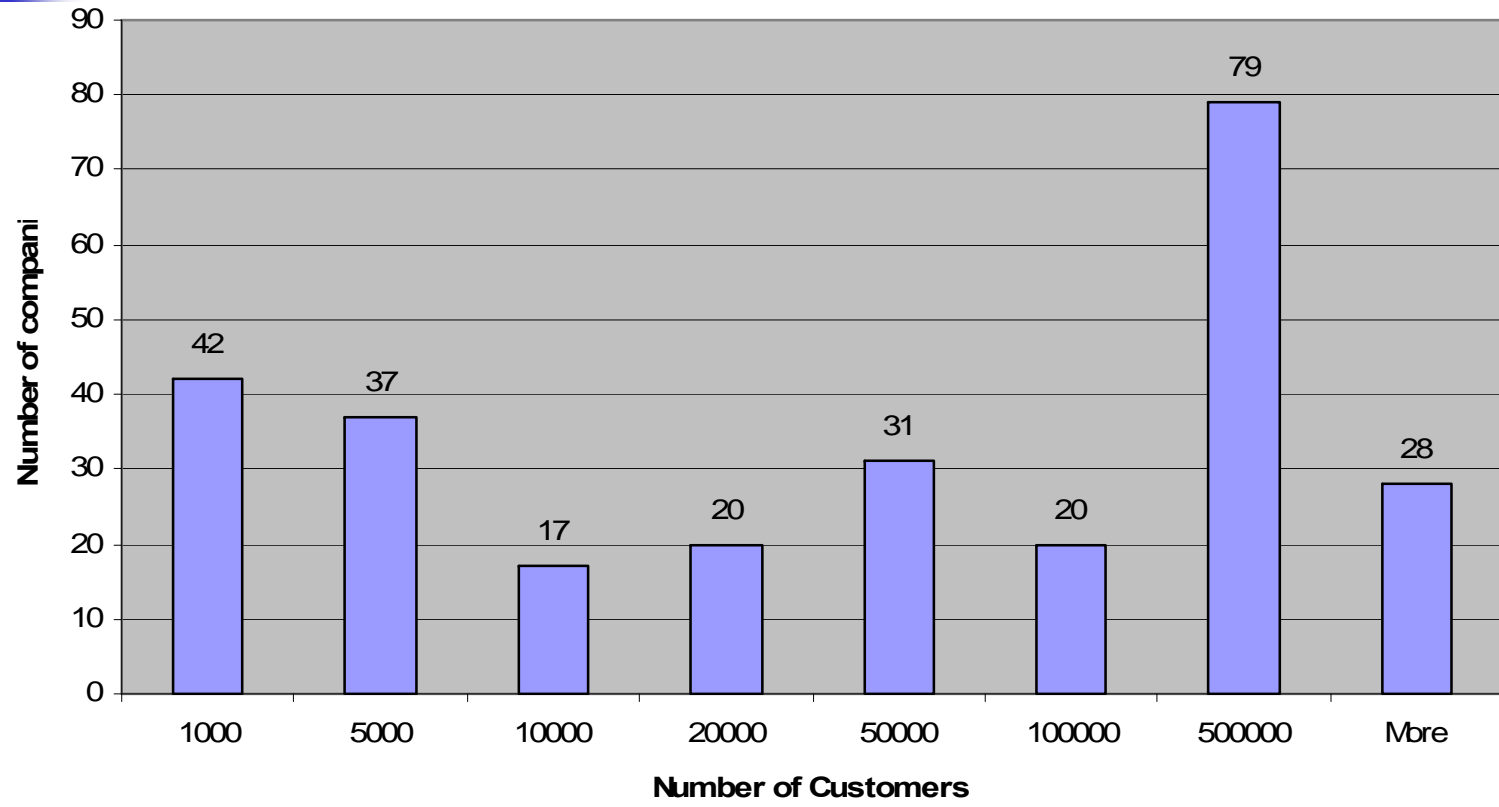


Employees

Over 75% employ ≤ 10 people



Investor Owned Utilities
Source: EA form 176 - 2002 data





SIF Board of Directors

- **NARUC**
 - Don Mason, Ohio
- **NAPSR**
 - Darin Burk, Illinois
 - Bruno Carrera, New Mexico
 - Leo Haynos, Kansas
 - David Lykken, Washington
 - Mark McCarver, Mississippi
- **APGA**
 - Leonard Philips, Missouri
 - Ben Andrews, Tennessee
 - George Bronson, Kansas
 - Steve Carter, Alabama
 - Jim Crowley, Maryland
 - Richard Worsinger, North Carolina
- ***UtilitySure***
 - Tim Sullivan



Summary of Work



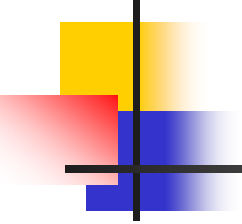
SIF Summary of Work

- Phase 1
 - Identify B31Q Covered Tasks
- Phase 2
 - Assess Training and Evaluation Materials
- Phase 3
 - Acquire/Develop/Modify Training and Evaluation Materials
- Phase 4
 - Conduct Training and Evaluation



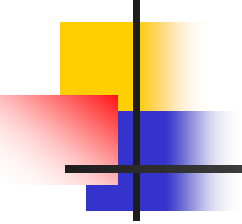
SIF Summary of Work – Phase 1 *Identify Covered B31Q Tasks*

- Focus group of regulators and operators
- Identified B31Q covered tasks common to a majority of master meter, small natural gas and LP operators
- These covered tasks form the basis of the SIF operator training programs



SIF Summary of Work – Phase 2 *Assess Training and Evaluation Materials*

- Subject Matter Expert (SME) team was formed
- Knowledge, Skills, Abilities and Abnormal Operating Conditions were identified for each covered task
- Criteria was developed for judging the adequacy of commercially available training and evaluation products
- Commercially available training/evaluation products were identified



SIF Summary of Work – Phase 3 *Acquire/Develop/Modify Training and Evaluation Materials*

- Commercially available evaluation products were compared against the KSA's and AOC's
- Products had to address all the KSA's and AOC's and include both written tests and hands on evaluations
- Acquire necessary licenses to use material
- Identify locations and potential qualifiers to conduct SIF Training/Evaluations
- Create a database of operators



Curriculum Agreements

- Industrial Training Services
- HIT-KIT
- Midwest Energy Association
- Energy World Net
- EWebOQ



SIF Summary of Work – Phase 4 *Conduct Training and Evaluation*

- Qualify at least 1000 employees of small natural gas, LP and master meter operators
- Set up sessions using SIF certified materials



Session Format

- 2 -3 Day Sessions
- Independent Days
- Instructor Led
- Maximum Class Size = 15
- Written Evaluations
- Hands On Ability Evaluations
- Registration Fees: \$125 – 199/ day



SIF Covered Task Categories

- Corrosion Control (5)
- Valves (3)
- Tapping and Stopping (2)
- Odorization (1)
- Leak Investigation (2)
- Damage Prevention (4)
- Purging (3)



SIF Specific Covered Tasks

■ Corrosion Control

- Measure Structure-to-Electrolyte Potential
- Inspect Rectifier and Obtain Readings
- Visual Inspection for Atmospheric Corrosion
- Visual Inspection of Buried Pipe and Components when exposed
- Visual Inspection of Installed Pipe and Components for Mechanical Damage



SIF Specific Covered Tasks

■ Valves

- Manually Opening and Closing Valves
- Valve-Visual Inspection and Partial Operation
- Valve – Preventative Maintenance

■ Purging

- Purging with Gas
- Purging with Air or Inert Gas
- Isolating, Abandoning and Deactivating Pipeline Facilities



SIF Specific Covered Tasks

- **Tapping and Stopping**
 - Tapping a Pipeline with a Built-in Cutter
 - Squeeze off Plastic Pipe



SIF Specific Covered Tasks

- **Odorization**

- Odorization-Periodic Sampling

- **Leak Investigation**

- Inside Gas Leak Investigation
- Outside Gas Leak Investigation



SIF Specific Covered Tasks

- **Locating and Damage Prevention**
 - Locate Underground Pipelines
 - Install and Maintain Pipeline Markers
 - Damage Prevention during Excavation Activities by or on Behalf of the Operator
 - Damage Prevention Inspection during Third Party Excavation or Encroachment Activities as Determined Necessary by Operator



Current Status



Results of Sessions Scheduled

- Session Began in September 2006
- 37 sessions have been scheduled
- 20 sessions have been conducted
- Workshops covering 12 states

Florida

Tennessee

New Mexico

Alabama

Connecticut

Missouri

Mississippi

Rhode Island

Arkansas

Georgia

Massachusetts

Indiana



Task 4 of Cooperative Agreement #1

■ GOAL = **1000**



Task 4 of Cooperative Agreement

■ GOAL = **1000**

■ CURRENT STATUS = **621**



Scheduled Sessions

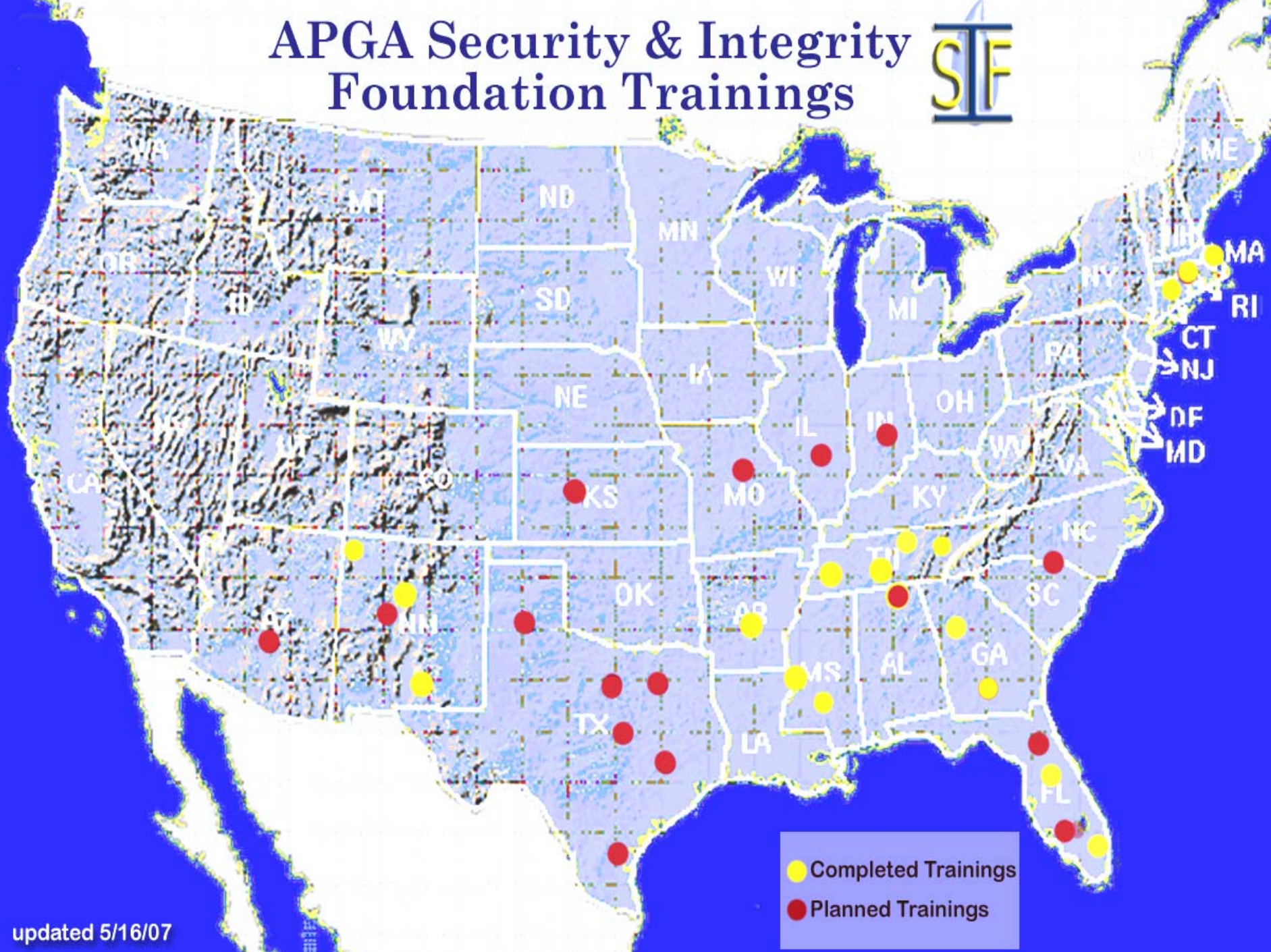
- Remaining 2007 Session Locations
 - Vicksburg, Mississippi -- November 5-7
 - Columbia, Missouri -- December 5-6
 - Sullivan, Illinois -- December 6-8



Future Sessions

- Sessions in planning stage
 - Arizona
 - Illinois
 - Tennessee
 - New Mexico
 - Florida
 - Kansas
 - Georgia
 - Delaware

APGA Security & Integrity Foundation Trainings



updated 5/16/07

● Completed Trainings
● Planned Trainings



Great support from states

- Arkansas
- Florida
- Mississippi
- Rhode Island
- New Mexico
- Indiana
- Alabama
- Illinois
- Tennessee
- Kansas



Partnerships with State Associations

- Alabama Natural Gas Association
- Tennessee Association of Utility Districts
- Missouri Public Utility Alliance
- Okaw Valley Gas Operator Association
- Georgia Municipal Association



What's Next?



PHMSA Cooperative Agreement #2

- OQ segment temporarily put on hold
- Task 1 was completed
 - Identified the next set of covered tasks
- 28 new covered tasks
- New Categories:
 - Regulating Devices
 - Maintenance, Repair and Replacement
 - Meter Sets
- More emphasis on **Training**
- **Develop Model DIMP Plan**



New Covered Tasks

- **Corrosion Control**

- Install Cathodic Protection Electrical Devices

- **Regulating Devices**

- Spring loaded Pressure Regulating Devices
- Pilot Operated Pressure Regulating Devices
- Spring Loaded Pressure Limiting and Relief Device
- Pilot Operated Pressure Limiting and Relief Device



New Covered Tasks

■ Meter Sets

- Installation of Customer Meters and Regulators – Residential and Commercial
- Installing Customer Meters – Large Commercial and Industrial
- Temporary Isolation of Service Lines and Service Discontinuance



New Covered Tasks

- **Odorization**

- Odorization – Odorizer Inspection, Testing, Preventive and Corrective Maintenance

- **Leak Investigation**

- Walking Gas Leakage Survey



New Covered Tasks

- **Maintenance, Repair and Replacement**
 - Pressure Test – Non-Liquid Medium – Test Pressure Less than 100 psi
 - Pressure Test – Non- Liquid Medium – Test Pressure Greater Than or Equal to 100 psi
 - Leak Test at Operating Pressure
 - Visually Inspect Pipe and Components Prior to Installation



New Covered Tasks

- **Maintenance, Repair and Replacement**
 - Installation of Steel Pipe in a Ditch
 - Installation of Steel Pipe in a Bore
 - Installation of Plastic Pipe in a Ditch
 - Installation of Plastic Pipe in a Bore
 - Installation of Plastic Pipe Plowing/Pull-In
 - Installation of Plastic Pipe by Plowing/Planting



New Covered Tasks

- **Maintenance, Repair and Replacement**
 - Install Tracer Wire
 - Installation of Pipe Above Ground
 - Above Ground Supports and Anchors – Inspection, Preventive and Corrective Maintenance
 - Installation and Maintenance of Casing Spacers, Vents and Seals



New Covered Task

- **Maintenance, Repair and Replacement**
 - Backfilling
 - Coating Application and Repair – Brushed or Rolled
 - External Coating Application and Repair – Wrapped
 - Install Mechanical Clamps and Sleeves - Bolted



SIF Covered Task Categories

- Corrosion Control (6)
- Valves (3)
- Regulating Devices (4)
- Maintenance, Repair and Replacement (18)
- Tapping and Stopping (2)
- Meter Sets (3)
- Odorization (2)
- Leak Investigation (3)
- Damage Prevention (4)
- Purging (3)



PHMSA Cooperative Agreement #3

- OQ segment will continue
- DIMP will continue
- **Model Operation & Maintenance Plan**



Observations

- Great support from PHMSA
- Awareness is improving
- Still improving the process
- Assembling a good cadre of evaluators
- Curriculum is excellent
- Session evaluations have been very good



03/30/2007



11/16/2006









Future Activities

- Begin Providing Training
- Developing Procedures Manual
- Revising session format
- Looking for additional evaluators
- Continue to find ways to lower costs

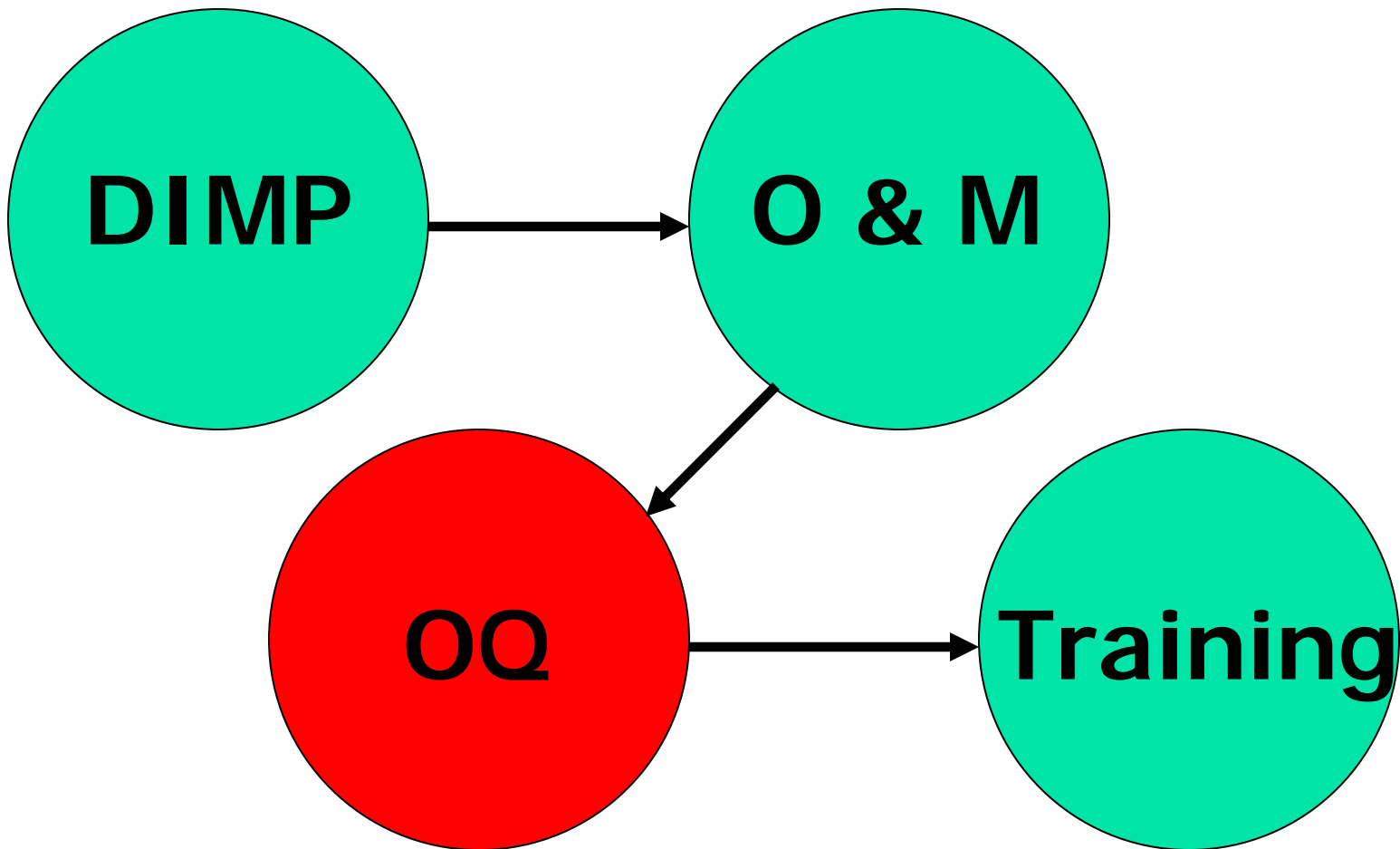


Model OQ Plan for Master Meter Operators

- Simple
- SIF Evaluation Focused
- Accepted by State Program Managers



SIF Services





Questions?

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