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# US DOT Agencies involved in Pipeline Safety

- Pipeline & Hazardous Material Safety Administration (PHMSA)
- Research & Innovative Technology Administration (RITA) & Transportation Safety Institute (TSI)



# Pipeline Hazardous Material Safety Administration (PHMSA) background

- Leon Manetta, Secretary of Transportation, Established PHMSA in 2005
- Provides Pipeline Safety Enforcement Training to Federal & State personnel, as Congressionally mandated
- PHMSA is a sister agency of TSI within the US DOT
- Provided foundation and invaluable assistance for the development of the TSI, PSC courses



# About TSI

- Established by DOT Order in 1971 (Secretary John Volpe)
- Mission: Provide world-class safety, security, and environmental training, products and/or services for people in the public and private sectors that contribute to the protection of life, property, and the environment



# About Us

- A Federal cost-recovery agency of the USDOT
- Excellent reputation in the transportation and related industries — 20,000+ students annually
- Specialize in transportation safety, security and environmental training
- Offer on-site/off-site/on-line courses, as well as design custom courses to meet your training needs
- Workshops, lectures, field activities, individual studies, and hands-on training based on adult learning principles.



# Special Program Division, RTI-100

- Conduct transportation safety & professional development training (USAF & Trican Well Service)
- Conduct Pipeline Safety Compliance Training for Petroleum Companies (Chesapeake, Piedmont, Koch Industries, PG&E and many others)
- Completely entrepreneurial, (ODOT Peer Exchange)
- Provide administrative services for training, as well (FAA, AFS & AIR)
- FAA, FHWA, ODOT, Navy &, US AF
- 24 SME's and associate faculty



# Purpose of TSI, Pipeline Safety courses

- Train petroleum & energy corporations about the pipeline safety regulations and PHMSA interpretations (49 CFR Sections 190, 191, 192 194, 195 & 199)
- By providing PHMSA perspective to corporations, we hope the US pipeline system (2.4 million miles) will be safer for the public
- We also hope there will be fewer citations (fines) over time and fewer third party tort liability claims with awards



# PSC Course development process

- Chesapeake, Devon, Koch and two nationally renowned pipeline safety SMEs on development team
- Over a year in development using the PHMSA Enforcement training as our foundation
- Petroleum or energy corporations critical contributions were to make certain the courses would meet our customer needs.





# SPD Customized PSC Course offerings

- Continuing work with the Petroleum Industry and SMEs to develop & offer Pipeline Safety Compliance courses
- First pilot course PSC Gas conducted December 2012
- First pilot PSC Liquid course conducted March 2013
- Developing PSC Orientation course for new employees
- Planning and preparing for development of Advanced PSC Course in 2014.



# Four Pipeline Safety Compliance (PSC) Courses:

- PSC Gas (3.5 days)
- PSC Liquid (3 days)
- PSC Orientation (2.5 days)
- PSC Advanced (3 days) available in 2014



# Benefits for Participants in PSC classes

- Developed, offered and conducted by US DOT
- TSI is fee for service agency which awards a US DOT certificate of completion
- Covers Pipeline Safety Regulations promulgated, administered and enforced by US DOT
- This is the only PSC course offered by US DOT for corporations



# PSC Gas Course Content Review

- Testing & Upgrading
- Construction Issues
- Operations & Maintenance
- Pressure Regulation & Corrosion Control
- Non-metallic Pipe
- Odorization
- Compressor Stations
- Regulated Gathering Lines
- Control Room Management



# PSC Liquid Course Content Review

- Accident Reporting
- Design Requirements
- Construction
- Pressure Testing
- Operations & Maintenance
- Corrosion Control
- Operator Qualification
- Integrity management
- Public Awareness
- Control Room Management



# Energy & Petroleum Corporation Customers

- Koch, Piedmont, Chesapeake (Access Midstream), PG&E & Bureau Veritas
- Colonial Pipeline Company, National Cooperative Refinery Association & Whiting Petroleum
- Chevron, Nustar Energy, ConocoPhillips, East Texas Pipeline, & SemGroup Corp
- Bureau Veritas, Middle Tennessee Natural Gas, PVR Partners, Northern Natural Gas, Jo-Carroll Energy
- DTE Energy Company, American Gas Association, Oklahoma Natural Gas Company (ONEOK) & many others



# Thank you ...

- It has been our pleasure to provide this overview of PSC training and other services offered by TSI.
- Everyone at TSI stands ready to work together with our fellow federal agencies, state & local agencies as well as private partners to help address your most important current and future transportation safety training needs.
- Contact: [Mike.Baldwin@dot.gov](mailto:Mike.Baldwin@dot.gov) or (405) 954-4727



# TSI Facilities

