NAPSR PERSPECTIVES

ADVANCED RESEARCH PROJECTS AGENCY – ENERGY (ARPA-E) ROBOTIC PIPE WORKSHOP

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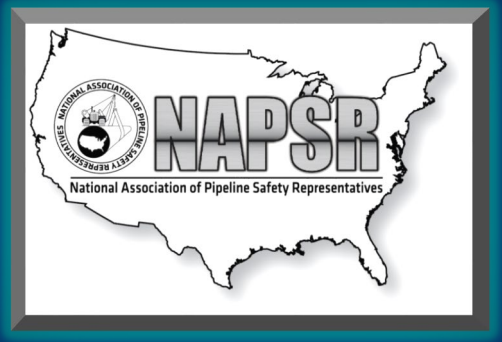

NAPSR

NATIONAL ASSOCIATION OF PIPELINE SAFETY REPRESENTATIVES

- Formed in 1982, as a non-profit corporation
- Mission: "to strengthen pipeline safety programs by improving pipeline safety standards, and promoting education, training and the integration of new technology"
- Supported by PHMSA
- States work closely with PHMSA, conduct their own inspections and enforcement for intrastate operators
- 50 state programs (includes Puerto Rico and DC – Alaska and Hawaii do not have state programs)
- 14 states also have hazardous liquid programs
- Several states have interstate agent status
- 5 Region Meetings and a National Meeting annually

NAPSR AND RESEARCH & DEVELOPMENT

- NAPSR supports R & D efforts that will result in an increase in pipeline safety.
- NAPSR participates in the PHMSA annual R&D forum and on the PHMSA Technical Assistance Grant working group.
- NAPSR will provide input on new materials, processes, and technology as appropriate, but does not endorse any particular R&D project.
- State Program Managers will often observe new technology as demonstrations are provided by the operators.

CAST IRON PIPELINES

- States still have 23,409 miles of remaining cast iron in the ground (as of 2018 Annual Reports)
- Most operators with cast iron have a long-term replacement program.
- Some operators are using relining for cast iron.
- Since cast iron will continue to graphitize on the exterior of the pipe, replacement is considered the better alternative to relining, in many cases.
- Cured in place re-lining is effective in some circumstances such as business districts, under major roadways, etc.
- There will be more focus on cast iron in the 2020 Reauthorization due to the Merrimack Valley, MA incident.

Regulatory Concerns/Questions about linings?

Size limitations?

Expected life span of linings with continued deterioration of cast iron/bare steel pipe as casings?

Service tie-ins – how would they be worked into replacement plans?

Third-party damages to casing/lining? Repair procedures?

Sectionalizing of pipe for emergency shut-off? How would valves be affected?

THANK YOU!