



NAPSR R&D Priorities

R & D Forum

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NAPSR

National Association Of Pipeline Safety Representatives

- Represents 48 of the 50 States plus Puerto Rico & D.C.
- Performs inspections of virtually all distribution facilities to insure compliance with Part 192
- States have jurisdiction over approximately 92% of the 1.9 Million miles of distribution pipe in the country.

NAPSR

- NAPSR is primarily a distribution driven organization.
- Some states do act as interstate agents and perform inspections of interstate pipelines within their respective states.
- The NAPSR board has polled the membership and we have developed R&D priorities within the organization.

1. Ability to predict the future performance of distribution pipe materials.

- There are many pipe materials that are in use that are generally considered to be prone to failure.
- Little **publicly** available information on current pipe performance.
- Need for comprehensive listing of Manufacturer, resin, material etc.. Showing current performance.

1. Ability to predict the future performance of distribution pipe materials.

- Has implications for an effective DIMP compliance in the area of threat assessment.
- Would be useful in prioritizing replacement programs.

2. Improved design of anodeless risers to address aging and installation issues.

- **The goal is to develop a more corrosion resistant riser shell with a longer life.**
- **Some risers have be failing prematurely at the soil/air interface.**
- **Also address installation issues with the goal of developing a riser that is usable in widely varying conditions.**
- **Look specifically at compression coupling performance**

3. Permanent marking of pipeline components.

- Develop markings that can fit into a small space and be informative.
- Current code requires material be identifiable until installed.
- There would be benefits in marking the component to enable identifying it after installation. (DIMP)

4. Ability to recognize odorant in a long time exposure environment.

- Instances where large groups have not smelled gas when odor is introduced gradually.
- Study the ability to detect odorant as a function of the length of exposure.

5. Develop the ability to monitor cast iron pipe for failure due to frost heave.

- Identify areas prone to frost damage
- Develop monitoring equipment capable of detecting pipe failure.
- Ultimately develop the ability to predict areas where pipe may fail.
- This also has DIMP implications.

The ultimate goal of R&D for Natural Gas Distribution.....

TO PREVENT THIS

