

Plastic Pipe Database Committee Plastics Pipe Institute

Advanced Welding and Joining Technical Workshop

January 25-26, 2006

NIST

Boulder, CO

PPDC/PPI

- Today's Environment
 - More with less
 - Sharing Knowledge
 - Industry Successes
 - New Challenges

PPDC / PPI

- Enhanced Collaboration leads to Solutions
 - Sharing of Information (Best Practices)
 - Identify Research Needs
 - Changes to Industry Standards/Regulations
 - Create New Technology
 - Better, Cheaper, Faster, Efficient

PPDC / PPI

- This Workshop
 - Share knowledge on current state-of-the-art
 - Developments in joining technologies
 - Identify needs
 - Propose solutions

PPDC / PPI

- Similar goals led to creation of the Plastic Pipe Database Committee
- Government and industry teamed up to study issue and find a solution
 - Assigning blame was not a goal.

PPDC

Voluntarily collects information on in-service plastic piping failures with the objective of identifying possible trends in performance

PPDC Members

Joint Government / Industry Initiative

- American Gas Association
- American Public Gas Association
- Plastics Pipe Institute
- Nat. Assoc. of Reg. Utility Commissioners
- Nat. Assoc. of Pipeline Safety Representatives
- US DOT / OPS
- NTSB

PPDC

Coordinating the creation of a database of in service plastic piping material failures with the objective of identifying possible trends in the performance of these materials.

PPDC

- Approx. 160 companies represent
 - 67% of total miles of installed plastic mains
 - 76% of total installed plastic services

Continue to encourage more companies to participate.

PPDC

- After 4 years, the data reinforces what is known about certain older plastic piping and components:
 - Century Products PE Pipe
 - Pre-1973 DuPont Aldyl “LDIW” Pipe
 - Pipe made from PE 3306 resin
 - Delrin insert tap tees
 - Plexco Celcon service tee caps

PPDC

- Efforts lead to changes
 - GPTC guide material
 - AGA Plastic Pipe Manual
 - Best Practices
 - Aid to DIMP

PPDC / PPI

- Progress attributed to efforts
 - Plastic pipe shows very low leakage rates
 - Joints tend to be site of many failures
 - Aside from 3rd party damage
 - Pipe performing very well
 - Allows industry to focus on “biggest bang”

PPDC / PPI

This program's success shows how a collaborative effort helps pipeline companies better manage their systems, enrich the quality of their services, improve safety and reliability, reduce environmental impacts, and minimize consumer costs.

PPDC / PPI

- I challenge this audience to think about the joining issues facing the plastic pipe industry.
 - share your thoughts in the breakout sessions
 - identify and prioritize the research
 - develop a path forward that makes the best use of available resources.