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# Plastic Pipe Data Collection Project

Hyatt Regency O'Hare, Rosemont, Illinois

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# Background

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- NTSB recommendation.
- Establish is a national database of in-service plastic piping material performance.
- AGA maintains database on behalf of PPDC.
- Creation and voluntary population of database is precondition to DOT not mandating collection.

# Plastic Piping Database Committee ( PPDC) – *16 Members*

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## **Government**

- NTSB (2)
- NAPSAR (2)
- NARUC (2)
- PHMSA (2)
- PHMSA-TSI (1)

## **Industry**

- AGA (2)
- APGA (2)
- PPI (2)
- AGA Observer (1)

# Committee Focus

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- Semi-annual database review.
- Consensus agreement on areas of focus or concern.
- Issue Annual Status Report.
- Develop resources to aid in identification of products and accuracy of data.

# Participation

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- 160 volunteer companies (1999)
- 143 active in 2006
- Participating companies represent:
  - 77% of total installed plastic mains
  - 80% of total installed plastic services
- Failure data and negative reports (no failures) submitted.

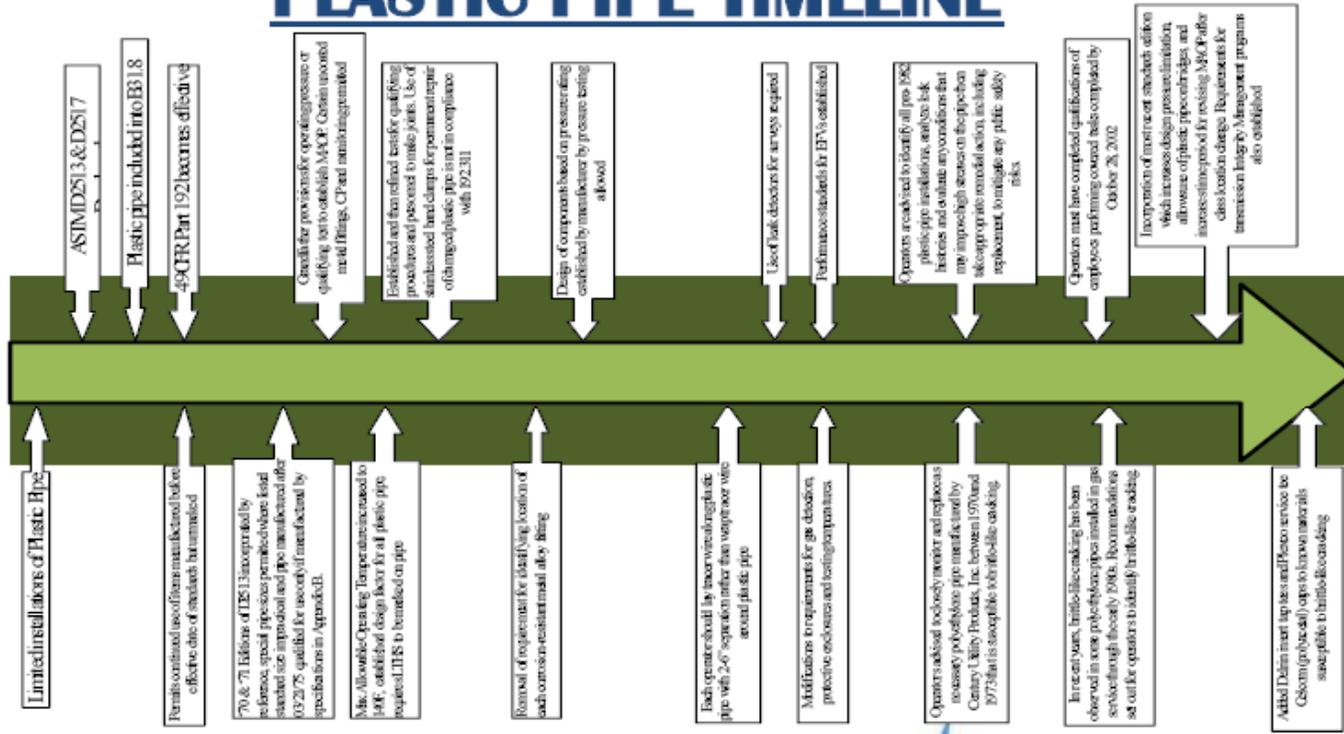
# Data Accuracy

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- Impacts analysis and conclusions by PPDC
- Need full cooperation of participants to help resolve submitted data issues.
- Developed Manufacturers List and Plastic Pipe Timeline to help improve reporting information.
- Helping operators to know their systems.

# Plastic Piping Database Committee (PPDC)

## PLASTIC PIPE TIMELINE





# Manufacturers Database

Manufacturers of Plastic Piping Products - Pipe					
Company	Material Designation	From	To	Size Range	Comments
Allied	PE 3306/3406	1965/66	1972/73	1/2" CTS - 2" IPS	Was also a resin producer and supplied the AC ultra high molecular pipe compound to several small pipe

Manufacturers of Plastic Piping Products - Other fittings					
Company	Material Designation	From	To	Size Range	Comments
AMP	Dupont Zytel ST-801				Technology purchased by Metcal in 1990; can be white appearance. Dupont Zytel ST-801

Manufacturers of Plastic Piping Products - Valves					
Company	Material Designation	From	To	Size Range	Comments
Nordstrom	PE 2406	??	Present	1/2" CTS - 12" IPS	Yellow body w/ white operating nut - ball valve.

Manufacturers of Plastic Piping Products - Line Fittings					
Company	Material Designation	From	To	Size Range	Comments
Continental Industries	PE 2406	1995	Present	1/2" CTS - 2" IPS	Stab-type couplings - Solid Yellow
	PE 3408/4710	1995	Present	1/2" CTS - 2" IPS	Stab-type couplings - Solid Black
	PA 11 Nylon	1995	Present	1/2" CTS - 2" IPS	Compression Fittings - Black



# Areas of Concern

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- PE pipe manufactured by Century Utility products.
- Pre-1973 DuPont Aldyl ® A low ductile inner wall plastic pipe.
- PE pipe manufactured from PE 3306 resin.
- Delrin insert tap tees.
- Plexco ® service tee with Celcon (polyacetal) caps that were over-tightened.

# Summary

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- 5 plus years of collected data.
- 100% of leak survey cycle.
- Data review and analysis has reinforced what is historically known of specific problem materials.
- PPDC Annual Progress Report available on AGA website.

# Looking Ahead

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- Areas of concern represent a small percentage of the amount of installed plastic materials.
- Training, qualification, procedures and plastic materials themselves continually improve.
- Overall in-service performance of plastic materials is excellent.