Oil Pipeline Challenges

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Pipeline Research and Development Forum
Houston, TX
March 22, 2005
Colonial Pipeline Company

- Largest, by volume, refined liquids product pipeline in the world
- Operates and maintains over 5,500 miles of pipelines – ranging from 6-inch to 40-inch lines
- Delivers on average 2.4 million barrels per day in the Southeast and East Coast market areas
- Approximately 20% of all refined products consumed in the U.S. are transported by Colonial
Mission of Liquid Pipelines

We transport a toxic, hazardous, flammable, known carcinogen from suppliers to customers and we do so in an ever changing regulatory environment, along increasingly crowded rights of way, for the benefit of an increasingly risk-intolerant public.

Our mission is to accomplish this task safely!
Challenge Areas

• Raising the effectiveness and efficiency of pipeline integrity efforts
  ▪ Improve the ability to interpret and classify internal inspection data
  ▪ Develop knowledge of interaction between anomalies and pipe features
  ▪ Broaden knowledge of impact on pipe integrity by environmental factors
Challenge Areas

• Maintaining integrity in areas where right of way competes with other land use priorities
  ▪ Application of current proven technology to improve coverage and reduce costs
  ▪ Better tools/knowledge base to predict pipeline response to encroachment activity
  ▪ Affordable simple and effective leak detection
Challenge Areas

• Meeting the increasing demands of the customers with existing infrastructure
  ▪ Utilize technology to increase capacity of existing infrastructure
  ▪ Reduce energy demands for operations
  ▪ Better predict effect of changing operations on fatigue life of pipelines
Industry Actions

• AOPL and 11 Member Companies Joined PRCI in 2003

• PRCI Restructuring to Increase Focus on Current Needs of Industry

• Engaging Government and Others in Co-Funded Research and Development Efforts
Final Thoughts

• Technology is only an enabler, but can provide a powerful tool for driving pipeline performance improvements

• Products of research and development need to be commercially viable and affordable

• Continued research investment must be contingent on measurable, tangible value provided to industry