ILI Technology & Analytics
Pipeline Safety through an Operator Perspective for the Last 20 Years
Boardwalk Pipelines

Boardwalk is a diversified midstream MLP that transports, stores, gathers and processes natural gas and liquids

Boardwalk Operational Highlights

Pipelines: We own and operate approximately 14,625 miles of natural gas and liquids

Storage capacity: Our storage facilities have an aggregate working gas capacity of approximately 208 Bcf of natural gas and 18 MMbbls of liquids
Industry Programs Developed

- ASME B31-8S Managing Integrity System
- DOT/PHMSA Rule Making
- API 1163
- ASNT/ASME PQ-ILI-2004
- NACE ILI 2002
Improvements With ILI Technology

- Tool developments
- Data Storage
- Battery Life Improvements
- Improved Sensors both Magnetic Flux (MFL) and Ultrasonic (UT)
- More Sensors Improving Analysis of ILI Data
- Improved Magnets
- Caliper to Deformation tools
- Combination Tools – MFL, SMFL, CMFL, Deformation and INS
Inertial Navigation System (INS)

• Global Positioning System (GPS) coordinates on every feature of the pipeline.
• Risk Factors in HCA and Outside HCA’s
• Data Integration
• Pipeline Strain
• Viewing of the Location of the Anomaly
• Ground Movements Areas
GIS and Data Integration

MapLink

All tool runs, all pipe repairs, pipe re-routing, corrosion data, one call, Class, HCA, pipe MAOP, hydrotest, pipe attributes, and anything related to our pipelines is displayed on our NEW GIS MAPLINK viewer – you all have access to it on your phones and computers.
GIS and Data Integration
Data Analysis

- Accurate Pipe Information to the ILI Vendor
- Accurate Reporting from the ILI Vendor
- Preliminary Report
- Final Reports
- Accuracy checks in-House
- Review Raw Data In-House
- Share Dig Results with Vendor
Accuracy of Tools and Data Analysis

- ILI tool accuracy has improved in the last 7 years
- Boardwalk in-house ILI analysts are experts in analyzing data and identifying actionable anomalies.
No matter how good your technology is, always PIG and DIG!