Bridging Gap among EPC Firms & Operator to Streamline Information Flow

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AGENDA

• Who We Are and What We Do
• Pipeline Project
• Current Challenges
• Current and Emerging Technologies
• Sabal Trail Story
• Q&A
Who We Are & What We Do

ENBRIDGE and GULF INTERSTATE ENGINEERING
ENBRIDGE— Who We Are
ENBRIDGE - What We Do

We help to fuel the quality of millions of people everyday by connecting them with the energy they need.

Our liquids business
- 16,500 miles (28,000 km) of active pipe
- 3 million bpd capacity
- More than 100 unique commodity types

Our natural gas business
- 34,410 miles (55,200 km) of natural gas lines
- Moving 15% - 20% of North America’s gas needs

Our renewables & transmission business
- 23 renewable projects in wind, solar, geothermal and waste heat recovery
- 2,800 megawatts generating capacity

Our gas distribution business
- 3.5 million customers across Enbridge Gas Distribution and Union Gas
- Servicing more than 500 different communities
Gulf Interstate Engineering and Gulf Interstate Field Services provide **full service** to the oil & gas industry.
GULF INTERSTATE ENGINEERING – What We Do

Pump & Compressor Stations: 5,000,000 HP

Cumulative Design Experience: 5,000,000 HP

Storage Terminals: 1,000,000,000 BBLs

Production Facilities: 2,000,000 BPD

Pipelines: 100,000 Miles

everything from the wellhead to the terminal.
PIPELINE PROJECT
Pipeline Project

• Major CAPEX

• EPC Firm and Operator

• Multiple Phases

• Numerous Stakeholders

• Information Exchange at Several Milestones
CURRENT CHALLENGES
Current Challenges

• Different Perspectives
• Different Goals
• Efficiencies
• Uniformity of Data Standards
• Common Understanding of the Project
• Single Source of Truth
CURRENT AND EMERGING TECHNOLOGIES
Current and Emerging Technologies

- GIS is at the Core
- Standardized Data Model
- Field Data Collection
- Internet Of Things (IOT)
- Drone2MAP
How We Overcome Challenges

• Industry Standard Data Model
• Common Technology and Data Standards
• Early Engagement
• Exchange Formats
• Efficient Use of Investment and Resources
• One Source
Questions & Answers