

PODSTM



Pipeline Open Data Standard
2011 USER CONFERENCE

**Enterprise Products
Implementation
of PODS v 5.0**



➤ Pipeline Assets Managed in PODS

- 50,776 miles of Pipelines
 - 6,160 Regulated Natural Gas Transmission
 - 14,350 Natural Gas Gathering
 - 1,889 Liquids Gathering
 - 25,373 Regulated Liquids Transmission
 - 3,004 Other
- 29 States in Continental US
- Gulf of Mexico Offshore

➤ PODS implementation

- SQLServer 2008 Platform
- PODS Version 5.0
- Centrally deployed (1 database)

➤ The Asset Integrity Department Owns and Maintains the Implementation

Business Needs

➤ Mapping

- Alignment Sheet Generation
- Business Development Maps
- Pipeline Atlas Style Maps
- Incident Response

➤ Spatial Data

- Google Earth Exports
- Delorme XMap Exports
- ESRI ArcSDE Exports

➤ Mileage Reporting

- DOT Annual
- FERC Regulatory
- Financial Accounting (10k)

➤ Regulatory Compliance

- HCA Segment Identification
- Pipeline Risk Assessment
- DOT Class Location Studies
- NPMS Filings
- T4 Permit Filings

➤ Data Integration

- Corrosion Prevention (PCS)
- ILI Data Integration/Alignment

➤ Accounting

- Cost Center Allocations and Budgeting
- Ad Valorem Tax Mileage Allocations (School Districts)
- Financial Accounting (10k)

➤ Data Quality and Governance

- Business Rules
- Work Management System for Asset Data Management
- KPI Style Reliability Monitoring
- Data Standards
- Quantifiable Assessments of Quality/Completeness
- Reference Material Management
(traceable, verifiable, complete)

➤ General Decision Support

- Internet Interface to PODS
- Robust Search Engine
- Variety of maps, reports and data exports
- *Bing Internet Maps - Future*

➤ Other

- Pipeline Flow Simulation
- Public Awareness and Damage Prevention
- OneCall
- Land Department/ROW
- Line Locating
- MOP/MAOP Validation
- Control Room Assignments

Future Business Needs

➤ Facility Data Management

- Facility Risk Assessment
- General Reporting/Mapping
- Fixed Assets/Mechanical Reliability

➤ Database Integration

- Field Operations Work Management System (EAM/Oracle R12)
- Reliability (Meridium)
- Ecall (IRTHNet)
- Flow Simulation

➤ Product Routing

- Receipt to Delivery Meter
- Barrel Mile Routes
- System Flow Simulation
- Schematic Diagrams

➤ Other

- DOT Class Ratings
- DOT Class Location Studies
- Emergency Responders
- T4 Permit Filings

➤ **Centralized Database Management**

- **Highly Standardized**
- **Governed by Business Process**
- **Geospatial Data Management SME**
- **Reliable, Predictable, Highly Available**



Lessons Learned

➤ People

- Success driven by people with a common understanding of business process and applied technology.
- Must represent the business interests of the operating company.
- Vertical Alignment of Organization

➤ Data Inputs

- **Data Standards:** *Data Dictionary, Units of Measure, Column Descriptions*
- **Governance:** *Code Domains, Referential Integrity, Constraints, Business Rule Validation*
- **Work Process:** *Data entry procedures, Quality Assurance and Quality Control*

➤ Data Outputs

- Targeted at Specific Business Requirements
- Variety of Data Visualization Methods
- Formally Scoped, Documented and Managed Programs