

## ENGINEERING SERVICES

A Unique Blend of Superior Engineering Know How and Experience with a Profound Understanding of Industry

Dynamic Risk brings a unique blend of superior engineering know how and experience together with world class software, data management, and engineering response projects. By building high performance teams in each of these areas, we are able to deliver high-value services and technical solutions to our clients consistent with industry and discipline best practices for pipeline integrity management programs.

We have over 120 professionals dedicated to pipeline integrity management. Furthermore, Dynamic Risk has worked with over 100 operators in North America which has enabled us to refine our services and solution offerings with a profound understanding of the needs of industry.

## PIPELINE REGULATORY COMPLIANCE SUPPORT

Dynamic Risk provides industry leading regulatory support to pipeline operators in which our services and applications have supported over 75 audits at the Federal, State and Provincial level. Our regulatory support services include:

- Risk assessment program compliance with regulations (Federal, State, Provincial)
- Integrity management program (IMP) compliance, adequacy, implementation and effectiveness
- Pre-audit preparation support and planning
- Post-audit support/development of corrective action plans

## ILI DATA CALIBRATION, ALIGNMENT, INTEGRATION & ANALYSIS

Dynamic Risk provides our clients with ILI data expertise, a solid technical understanding of ILI analysis, management and efficient data assurance and validation. Our support services and technology include:

- Data analysis, loading and sentencing
- Field program planning, coordination and management
- Excavation/dig sheet development, program planning and coordination
- ILI data validation and integration of NDT findings
- Complete data analysis and future program plans

## INTEGRITY DATA MANAGEMENT SERVICES

Dynamic Risk has a strong technical understanding of pipeline integrity data. Our team comprises experienced integrity data analysts with a deep understanding and focus on engineering, ILI, GIS, from the wellhead to big-inch cross country transmission pipelines. Our expert integrity data services include:

- Integrity data collection, validation and analysis
- Integrity data structure planning
  - » Data model implementation support
  - » Database management and update support
- Inspection data integration
- Data scrubbing, standardization and formatting required for integration with engineering analytical applications and processes

**100+**  
OPERATORS  
ACROSS  
NORTH  
AMERICA

## INCIDENT INVESTIGATION

Our experts have active relationships with regulators and stakeholders, providing external credibility and appropriate support. Our team provides technical expertise and services as follows:

- Incident Investigation Coordination and Management
- Direct Causal Analysis
- Root-cause Failure Analysis
- Return to Service Support
- Expert Witness Support
- Regulatory Support and Consultation
- Public Hearing Support
- Stakeholder Consultation

## ENGINEERING ASSESSMENTS

Whether your needs relate to the management of existing infrastructure or new pipeline construction projects, we have the technology and engineering expertise to assist you with risk-based decision making. Our engineering services and technology include:

- Engineering Assessments
- Fitness for Service Assessments
- Risk-Based Design
- Route Selection Risk Management Support

## OPERATOR STAFF AUGMENTATION

Our dedicated team of subject matter experts are available to work as an extension of your integrity management team and are equipped with proprietary software solutions for managing operational risk, regulatory compliance and providing integrity program support.

Our on-site expertise includes:

- Regulatory Compliance
- Risk Management
- Management Systems Auditing and Development
- Class Location and HCA Analysis
- ILL and DA Integrity Assessment
- Program and Project Management
- Professional Field Services

## ABOUT US

Dynamic Risk's technology and consulting services optimize risk-informed decision making to manage risk through an asset's entire life cycle. Our IRAS platform models pipeline systems to proactively determine where they are most likely to fail and the corresponding consequences of unintended releases. From gathering systems, midstream pipelines, transmission pipelines, and distribution networks, we have software applications and in-house engineering expertise to provide complete pipeline risk assessment, data management and compliance reporting.

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