

POPULATIONS OF MULTIPLE COMPARABLE SEGMENTS OF PIPE: A Path to Regulatory Compliance and Data Quality

Dynamic Risk has collaborated with pipeline operators around the world to aggregate extensive data from their pipeline assets. With the backing of these visionary operators and a substantial investment of technical resources, our **Insight Hub** equips organizations with insights and data applications that were previously unattainable.

SERVICE OFFERINGS

By utilizing Dynamic Risk's Insight Hub, operators acquire the capability to comprehensively assess the quality and suitability of their pipeline data. This information serves as the cornerstone for conducting precise analyses related to pipeline integrity and regulatory compliance, notably in accordance with 49 CFR §192.607.

Recent updates to federal regulations pertaining to natural gas transmission pipelines have brought forth modifications aimed at enhancing Pipeline Integrity. Notably, certain sections mandate the provision of precise data regarding pipeline construction, operations, and inspection characteristics. Adherence to these regulations relies on the traceability, verifiability, and completeness of an operator's material records.

In situations where operators lack such comprehensive material records, regulations allow the use of populations of multiple comparable pipeline segments — along with in-situ testing — to validate material properties. This regulatory feature encourages operators to recognize the value of pipe populations in assessing data quality and reliability.

Insight Hub has transformed the evaluation of extensive pipeline data, enabling operators to make well-informed decisions through comprehensive data analysis. This extensive data resource facilitates the enhanced optimization of material property verification tasks, empowering operators to maintain regulatory compliance.

BENEFITS

- Operators can leverage machine learning models to unveil insights and automation possibilities that were previously inaccessible. Embracing data science components facilitates the streamlined evaluation of extensive data volumes for trends and anomalies. Consequently, this type of data analysis supports proactive and continuous enhancement within Pipeline Integrity Management Programs.
- Operators can utilize insights derived from data to develop improvements in their integrity analysis procedures. The capacity to assess current data quality and reliability empowers operators to tackle data limitations that affect diverse processes and analyses, thereby opening up new avenues for enhancement.



ABOUT DYNAMIC RISK

Dynamic Risk is a leading global technology service provider helping ensure the safe and efficient delivery of energy resources. Since 1996, Dynamic Risk has revolutionized pipeline integrity management by combining in-depth engineering expertise and advanced software applications, now leveraging predictive analytics to uncover actionable insights for risk-informed decision-making. Dynamic Risk partners with operators across the Transmission, Midstream, Upstream, and Gas Utility industries to avoid pipeline failures through complete asset lifecycle risk management, and enables clients to achieve optimal business, safety, and environmental performance while meeting compliance objectives in pursuit of the goal of zero incidents.

Dynamic Risk is part of Previa, a fast-growing, innovative, and private industrial technology group focused on advanced diagnostic technologies to monitor the world's infrastructure health. The Group serves asset owners, large engineering firms, and service companies globally in markets such as Aerospace, Civil Infrastructure, Energy, Mining, Power Generation, and Rail. Via sensors, hardware, robotics, and software, Previa makes a safe and sustainable future possible, by pushing the limits of diagnostic technologies that preserve the integrity of our world's critical infrastructure and assets. More information can be found on the company's website: www.previa.com

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