

HYDROGEN CONVERSION FOR TRANSMISSION, MIDSTREAM, AND DISTRIBUTION PIPELINES

Dynamic Risk, a recognized industry leader for over 25 years, in the development and implementation of world-class risk management consulting and technology solutions for pipeline operators, enabling pipeline asset owners to identify and manage key operating risk exposures associated with design and conversion of existing pipelines and facilities for blended hydrogen service.

Our in-depth consulting expertise in the key domain areas of gas pipeline design, operations, regulatory compliance, hazard assessment and integrity management allow pipeline operators to better manage investment uncertainties and effectively navigate the process for blended hydrogen conversion of their pipeline assets.

SERVICE OFFERINGS

- **Investment Planning & Design Certainty** – Leverages existing integrity and risk management datasets, operational history, and leading regulatory indicators, to support asset hydrogen conversion feasibility studies that account for both immediate design and long-term operational costs and challenges.
- **Risk and Reliability Targets** – Limit states and defined risk or reliability targets (safety targets) specific to hydrogen service, are established for use in engineering / hazard assessments and risk model development to drive risk-informed decision making.
- **Hazard Assessment** – Further leverages existing integrity data sets including pipe steel attributes, operating history, risk models, and current integrity status to identify key data gaps and / or unmitigated hazards considered specific to hydrogen service, for design awareness and to prioritize for action.
- **Regulatory Compliance** – Leverages facility design parameters, integrity and risk management program development, to ensure alignment with integrated current local and federal regulatory requirements, applicable industry standards and evolving regulatory trending specific to hydrogen service.
- **Turn-Key Integrity Assessment** – Establishes long-range approach for maintaining integrity of the pipeline asset to meet hydrogen service objectives, and safety targets; incorporates operating and business factors to ensure business risk has been considered without compromising safety.

WHY DYNAMIC RISK

We bridge the hydrogen conversion lifecycle management gap with support from our combined experience in pipeline design and integrity experts in application with the use of our innovative, proven technologies to provide pipeline operators with total asset performance and address the following hydrogen areas of focus:

- Meet New and Evolving Regulatory Mandates
- Informed Analysis for Confident Decision Making
- Address ESG Considerations and Achieve Sustainability Program Targets
- Improve Transparency of Potential Risks and Mitigate Incidents
- Increase Operational Efficiency and Streamline Resources to Protect Capital Investment

BENEFITS

- **Industry Domain Expertise** – Access to a team of internal and independent professional partners capable to backstop any knowledge or expertise required across the pipeline Transmission, Midstream, and Distribution spectrum, including knowledge gained through combined risk and integrity support for a large segment of U.S. and Canadian pipeline operators, participation in extensive federal and state audits, ILI assessment, HCA processing and analysis support projects.
- **Regulatory Knowledge** – Extensive project experience in the areas of regulatory compliance review, pipeline management system audit, integrity and risk management optimization and a combined ability to proactively respond to meet evolving hydrogen industry regulations and everchanging new mandates.
- **Asset Safety and Reliability** – Extensive combined domain expertise in the areas of risk and reliability assessment to aid our clients in determining the need for controls and prioritizing integrity investments as necessary to preserve the integrity of an asset in consideration of the predictive time to failure, data uncertainty and any applicable safety factors.
- **Turnkey Solution** – A flexible and scalable combined service offering developed based on sound project discipline (communications; process; documentation) to best meet your project and business objectives.

Contact us today to learn how our services best support efficient and reliable integrity management and risk mitigation of your pipeline infrastructure.

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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