



Pipeline Integrity Services



Pipeline Integrity

ABRASION, CORROSION AND FATIGUE, are an ever present operational threat. Pipeline integrity management's goals are the prevention and mitigation of unintentional releases and to achieve the desired service life of the asset. The safe transportation of the product from the source to the point of delivery, is a primary objective of the pipeline operator. Failure to manage pipeline integrity can result in multiple negative impacts. Consequences of a pipeline leak may include loss of life or personal injury, environmental and social impact, damage to related assets, revenue loss and loss of reputation, along with a negative impact to shareholder value.

Operational Safety Case

Safety cases are prepared to demonstrate that Operators can safely operate the pipeline system. The Safety Case studies involve a review of the design and installation to develop a comprehensive list of the risks and mitigation controls through risk modelling (QRA, SQRA, etc.). The results are consolidated into best practices to ensure safe and prudent operations.

Management

Pipeline Integrity Management requires that all physical plants, management processes and personnel operate as intended. Therefore, asset integrity management will focus on the following aspects of the pipeline operation:

- INSPECTION: Maintenance Procedures
- PLANT: Physical Barriers
- PROCESSES: Organizational Practices
- PERSONNEL: Competencies

Pipeline asset integrity management systems are based on the relevant design, construction, commissioning, operations and maintenance data combined with the surveillance data collected in the field to determine the status of the pipeline system condition and subsequently the assignment of a risk factor by kilometre for the pipeline. Based on these risk factors, maintenance resources can be allocated to address the defined mitigation measures. The integrity plan includes a review of the operational processes and personnel competencies which are evaluated against industry best practices and project specific requirements. Training programs are developed to suit individual project needs with continuous performance evaluations being a critical component of the asset integrity plan.

Services

- Development of a Pipeline Integrity System scope of work
- Review of existing documentation and barriers to integrity plan implementation
- Risk assessments and safety case development.
- Utilization of the latest technology to provide cost effective solutions to pipeline integrity concerns
- Development of the Pipeline Integrity management including the plan, manual and procedures
- Development of a personnel core competency plan as a basis for training and operational performance monitoring
- Development of the pipeline surveillance plan for the inspection, testing and monitoring of the both, the pipeline and related facilities
- Development of analysis tools, reporting systems and key performance indicators (KPI's)
- Remaining service life and extension of life assessments
- Development of an incident investigation and root cause analysis system
- Regulatory compliance and assistance

All work is in accordance to ISO 9001 and B31.4.

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