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Pipeline Integrity Management

Pipeline integrity management and assurance play a significant part in any integrity-management program (IMP) within the oil, gas, power, and many other industry sectors.

Across many sectors, pipeline inspection services provide a vital service-condition evaluation of the piping's material properties. Deploying specialist NDT pipeline tools, pipeline integrity management provides detailed information and data on any anomalies found, which assists the asset owner in avoiding unnecessary maintenance or unplanned shutdowns.

THE Applus+ SOLUTION

Applus+'s Pipeline Integrity Assurance (PIA) services offer the on-site evaluation of pipeline anomalies in support of direct-assessment (DA) programmes, in-line inspection (ILI) validation programmes and class-change programmes undertaken by pipeline owners and operators. They involve specially developed inspection techniques, technologies and technician training which are designed specifically for thin-wall pipeline applications.

The Pipeline inspection services at Applus+ offer on-site evaluation of anomalies to support direct-assessment (DA) programmes, ILI pipeline inspection (in-line) validation programmes, and class-change programmes undertaken by pipeline owners and operators. These involve specially developed pipeline inspection techniques, technologies and technical training for thin-wall pipeline applications.

Pipeline Integrity Assessments must be delivered with an assurance of competency, with the prerequisite NDE certification awarded from the different regulatory entities. Applus+ ensures its competency when delivering pipeline integrity assessments through a progressive and standardized training and certification program. Similar to the ASNT-TC-1A certification program, the Applus+ program is monitored to ensure a combination of

in-depth theoretical training and field experience as pipeline NDT technicians, followed by a rigorous written and practical examination.

As a leading pipeline inspection company, Applus+ has extensive resources to carry pipeline integrity assessments to meet our client's project needs, including code interpretation and compliance, inspection-data management, or critical-feature assessment.

Applus+ uses advanced NDT techniques and equipment in its pipeline inspection services, including:

- **Applus+ InSite** – a field-reporting and data-management system
- **Engineering review and assessment** capabilities
- **RTD IWEX** – for inspecting seam and pipe-body anomalies
- **3D laser mapping** – for external corrosion and ILI tool-data pattern matching
- **Material characterization** and verification testing expertise
- **DTI Trekscan** – for difficult-to-inspect pipelines

Target customers

Applus+ offers comprehensive NDT pipeline inspection services for both transmission-pipeline integrity-assessment management and distribution-pipeline integrity-management programmes.

For projects related to:

- ILI pipeline validation and remediation – seam weld, MFL and deformation ILI tool assessments
- Direct assessment (ECDA, ICDA and SCCDA) direct examination
- Pipeline and corrosion reconditioning
- Material verification programmes

Pipeline inspection for anomalies with advanced NDE:

- UT shear-wave anomaly evaluation
- Phased array UT anomaly evaluation
- Encoded TOFD and PAUT seam-weld scanning
- IWEX Weld and SCC feature evaluation
- Automated UT for internal-corrosion mapping
- Automated and manual laser mapping of external corrosion

Key customer benefits

Applus+ has pioneered the development of pipeline integrity assessment solutions over the decades, offering a comprehensive suite of services to complement owners' and operators' pipeline inspection programmes.

With over 20 years' experience, Applus+ has developed a comprehensive solution for pipeline inspection, and supports these resources with the best training programme to develop well-qualified technicians for pipeline integrity assessment and inspections.