ARE YOU FIT FOR SERVICE?

- **NO GUESSWORK INTEGRITY:** Going beyond your standard in-line inspection (ILI) report, we can provide greater insight into anomalies, allowing you to make more informed integrity decisions.

IMMEDIATE INTEGRITY ASSESSMENT

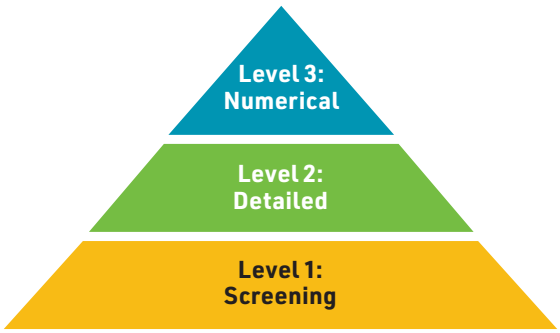
Our immediate integrity assessment takes in-line inspection (ILI) reports to the next level by providing a more detailed evaluation of the anomalies. By accounting for tolerances, incorporating axial and circumferential orientation effects and using industry-accepted methods, our analysis will clarify the integrity of your pipeline. You'll understand a clear course of action – such as repair or pressure adjustment – with the priority of maintaining service.

APPROACH

The right level of assessment

TDW provides a more detailed assessment of anomalies using the most appropriate assessment approach. Anomalies that fail an original assessment can be escalated to a level 2 and level 3 assessment (finite element analysis). Our goal is to ensure the most optimal outcomes possible in support of continuous, safe pipeline operations.

ASSESSMENT LEVELS

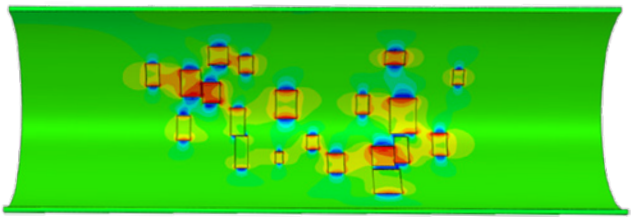


VALUE

Focus on what matters most

We'll complete your immediate integrity assessment using the most appropriate code or industry-accepted method. You'll know which anomalies require immediate action or, when inaccessible, the maximum safe operating limits. Also, assessed anomalies are grouped for more efficient repairs, thus optimizing digs.

FINITE ELEMENT ANALYSIS OF A GROUP OF ANOMALIES



EXTENDING BEYOND INSPECTION

- Improving safety, efficiency and productivity throughout the life of your pipeline.

ASSESSMENT SERVICES

Immediate Integrity Assessment

IMMEDIATE THREATS:

- Metal loss
- Dent strain
- Bending strain
- Selective seam weld corrosion
- Cracks
- Mechanical damage

Future Integrity Assessment

TIME-DEPENDENT THREATS:

- Corrosion growth
- Line movement
- Crack growth
- Dent fatigue
- Other changes in pipeline conditions

Advanced Integrity Assessment

MORE COMPLEX THREATS:

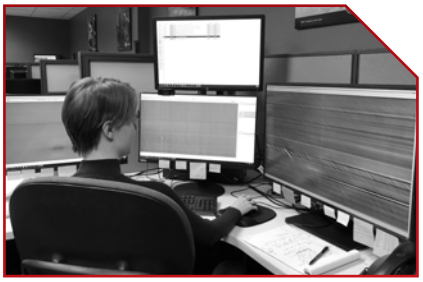
- Non-axial stress corrosion cracking
- Branch connection loading
- Wrinkle bends
- Hard spots
- Other threats requiring finite element analysis (FEA)

Using the right approach

The right assessment approach, consistent with codes, industry-accepted methods and operator mandates, ensures compliance and auditability.

Focus on the right decisions

By focusing on the anomalies that matter most, you can make the best integrity decisions for your pipeline.



Contact your TDW sales representative for more info.

T.D. Williamson