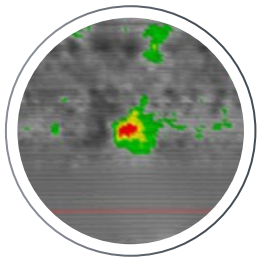


DO YOU HAVE CORROSION UNDER CONTROL?



► **CORROSION NEVER STOPS:** Understanding corrosion growth helps you plan for the longevity of your pipeline.

CORROSION GROWTH ASSESSMENT AND FUTURE INTEGRITY



Corrosion is a random process and one of the primary threats to pipelines. The most common way to assess corrosion is through in-line inspection (ILI). While the most recent ILI report is a statement of the current integrity, additional assessments are required to predict the future. One inspection can be a basis, but multiple inspections let you see what's happening between them, providing insight into what the future might hold.

APPROACH

Going back to the data

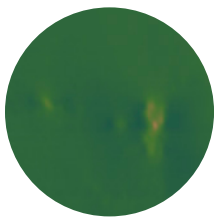
Our three-level assessment starts with a single ILI run, deriving statistical rates from operational history. The second level matches pits between any two inspections, and the third uses signal-to-signal matching.

VALUE

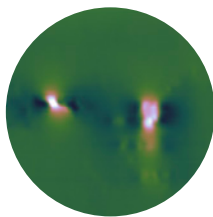
Providing actionable recommendations

We provide an optimized repair plan for individual defects and areas where multiple anomalies can be repaired to reduce future action. We also provide an estimate of the longevity of your pipeline, the operating pressures (if derating is required) and the next inspection interval.

GROWTH BETWEEN TWO ILI RUNS

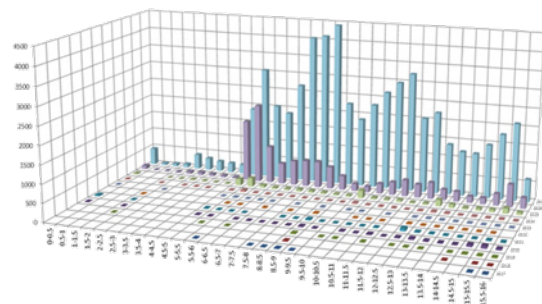


PREVIOUS



CURRENT

OPTIMIZED REPAIR PLAN



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:

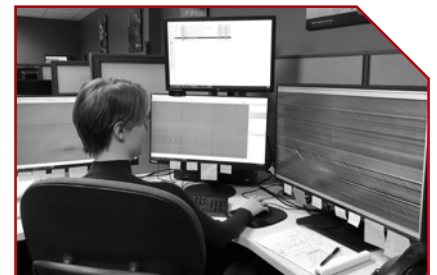
- ▶ Non-axial stress corrosion cracking
- ▶ Branch connection loading
- ▶ Wrinkle bends
- ▶ Hard spots
- ▶ Other threats requiring finite element analysis (FEA)

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

