

Pressure Based Anomaly Assessment Training

Understanding Pressure Based Anomalies



Informed Decision-Making

About the Class

Two Day Course

This course develops a basic understanding of pressure based anomaly assessment. The course will emphasize the application of pressure based anomaly assessment using In Line Inspection data and the application of pressure based anomaly assessment to Regulatory compliance.

Common industry codes, severity ratios, and interaction criteria are covered. Industry codes covered include ANSI/ASME B31G and Modified B31G - specifically .85dl and Effective Area anomaly assessment. While the field application (on the pipe) of pressure based anomaly assessment is covered, the primary focus of this course is the application of these criteria to In Line Inspection data.

The use of severity ratios is becoming more acceptable as a method of prioritizing planned excavations. It is important to understand how the ratios are derived. Common severity ratios that are covered in this course include Rupture Pressure Ratio (RPR), Estimated Repair Factor (ERF), and Factor of Safety.

Most pressure based criterion for evaluating safe operating pressures are based on pipeline properties and corrosion geometric properties such as depth and length. The estimation of length, whether on the pipe or using In Line Inspection data, is dependent on which interaction rule is used.

An interaction rule will determine if two anomalies should be treated as a single larger anomaly. Some interaction rules included in this course are 1" 6t, LWmin, LWavg, 3t box, and (f)t.

The course is held at Tuboscope Pipeline Services' facilities which allow the participants to complete practical exercises in the application of pressure based anomaly assessment by using Tuboscope's LinaView Professional software and the 30" Flow Loop.

Who should attend

This class is designed for pipeline operators and contractors that are involved in pipeline corrosion assessment. Emphasis is on the application of pressure based anomaly assessment using In Line Inspection data.

Attendees that would gain from this class include field operation personnel, project managers, and Integrity Assessment personnel such as management and project engineers.

Benefits of the class include a basic understanding of industry practices and how to use In Line Inspection data as a pipeline integrity assessment tool.

Day 1*

DEFINITIONS

COMMON CODES

B31G
Modified B31G
.85dl, Effective Area
RP-F101

COMMON SEVERITY RATIOS

Factor of Safety
PRR
ERF
RPR

CLUSTERING

1" - 6t
LW min
3t box
LW average

Day 2*

EXAMPLE ANOMALY ASSESSMENT

In the Field
MFL Data

REPORTING FORMATS

LinaView
Specialized Spreadsheets
EAAA SIGNIFICANCE TO REGULATORY REQUIREMENTS

**Both days include lunch.*

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