

Case Study Sheet



Sheet Ref: 08Q124

Immediate and Future Integrity Evaluations of Refined Product Pipeline System

Summary:	Case-studying the ability PIMS have to complete both 'off-the-shelf' and customized, Immediate and Future Integrity Evaluations to satisfy the requirements of the customer and the uniqueness of each pipeline.
Asset Sector:	Oil & Gas: Refined Product Pipelines
PIMS Service Components:	Strategic Planning, Dynamic Segmentation, Threat Identification & Susceptibility Studies; Risk & IMP Services, Data Gathering, Review & Integration, Risk Assessment Integrity Evaluation Services, Fitness for Purpose (FFP) Evaluations Maintenance & Rehabilitation Services, Repair & Rehabilitation Planning
Customer:	Latin America Operator
Customer Brief:	Take the commissioned ILI run data and perform thorough Immediate and Future Integrity Assessments on nominated lines within 6 Refined Product Transportation Systems. The Integrity Studies will support decisions on future repair and maintenance strategies, re-inspection periods and other required recommendations with the purpose of verifying that the condition of each pipeline is restored or maintained in compliance with the customers' internal regulations and international standards.
PIMS Approach:	<p>The diversity of the work required to fulfil the list of customer requirements meant that before PIMS could start work on the Integrity Evaluations, it was necessary to establish a project working methodology, which would ensure that all system-wide scenarios and details were assessed.</p> <p>Once on-site PIMS established that although many of the pipelines shared products, and were linking parts of the same transportation systems, these pipelines did not share threats and consequences or corrosion mechanisms. Subsequently PIMS undertook this work by first breaking the transportation systems up into individual pipeline sections. PIMS then grouped alike sections from various transportation systems together using external environmental characteristics to create regions. After these regions were established PIMS were able to assess, record and prescribe mitigation activities to the common threats experienced by each pipeline section in each region. Defect assessment, corrosion growth estimations and maintenance strategies were completed using industry standard codes and regulations and following international fitness-for-purpose philosophies. This segmentation, assessment and mitigation reporting activity was carried out iteratively until PIMS had satisfied the project scope and delivered the outcomes to the customer.</p>
Project Outcome:	19 individually tailored Immediate and Future Integrity Evaluations, utilising 10 years of inspection, cathodic protection and historical maintenance records, each detailing conclusions, recommendations and maintenance actions to ensure the future compliance of the transportation systems with company and international regulations and standards.
Project Reference:	To discuss this Case further with the end-user, please first liaise with PIMS of London.