

## Pipeline Integrity Management

The challenges of managing and maintaining pipelines, both onshore and offshore, requires extensive technical knowledge and operational experience to ensure all key objectives are achieved, including:

- Incident-Free Health and Safety
- Regulatory Compliance
- Minimal Environmental Impact
- Continued Reliability and Availability
- Optimised Costs



Implementation of a Pipeline Integrity Management System (PIMS) requires utilisation of a robust management framework. This has to be developed and documented, and Codex Integrity has considerable recent experience in assisting operators in this task. We will prepare, or participate in the preparation, of:

- Clear Policy and Strategy
- Statutory and Regulatory Compliance
- Comprehensive Integrity Management Processes
- Consistent Risk Assessment Process and Residual Risk Profiling
- Management and Organisation; Roles and Responsibilities
- Risk-Based Written Schemes of Examination
- Design and Document Control
- Operational Requirements (normal and extreme conditions)
- Maintenance and Inspection Procedures
- Third Party Mitigation Measures
- Change-Management
- Performance Measurement, Reporting and Improvement



Codex Integrity will provide and manage the activities required by the PIMS, such as:

- Maintenance and Inspection Schedules
- Integrity and Inspection Work Packs
- Inspection Activities
- Inspection and Operating Data Analysis
- Formal Review and Incorporation of Lessons Learned

Codex Integrity considers it essential that the PIMS is supported by a process of review and audit, documented through routine reporting and a periodic formal management review.

## Pipeline Design, Construction, Installation, Pre-commissioning and Commissioning

Codex Integrity's engineering expertise and practical experience allows us to support operators in ensuring their pipelines are fit for intended purpose, from first concept through to commissioning. We have significant experience in the following activities, both onshore and offshore:

- Contractor Evaluation and Selection
- Pipeline Design and Management Review (In-House or utilising a Design House)
- Project Specification, Organisation and Management
- Management of Fabrication and Installation Contracts
- Preparation of Pre-Commissioning and Commissioning Philosophies
- Procedures and Storyboards

## Pipeline Operations

In addition to PIMS, we assist in managing all risks during the in-service operation of pipeline systems:

- Development and Enactment of Bespoke Inspection Systems/Techniques
- In-Service Inspection and Surveillance
- Operational and Inspection Pigging
- Preparation and Exercise of Emergency Response Procedures
- Incident Investigation
- Repairs and Modifications; Implementation of Change Control
- Quality Assurance
- System Auditing

## Pipeline Decommissioning

Pipeline decommissioning requires a parallel, but different experience-set, to that of construction activities. Codex Integrity has personnel experienced in the decommissioning process:

- Identification and Short-Listing of Decommissioning Methods
- Managing Environmental Impact Comparisons
- Development of Detailed Decommissioning Procedures
- Regulatory Authority Facilitation
- Decommissioning Activity Management

### For further information please contact:

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