



ASSET **INTEGRITY** MANAGEMENT

PARTNERING TO ACHIEVE YOUR INSPECTION, ENGINEERING, DATA MANAGEMENT AND SAFETY GOALS

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ASSET INTEGRITY MANAGEMENT SERVICES

Asset Integrity Management Services

- Risk Based Inspection Management Aging Facilities, Life Assessment and Extension Services
- Specialized Studies and Examinations;
- Creep damage Assessment
- High temperature Hydrogen Attack
- Hydrogen induced cracking assessment
- Mechanical integrity& Data Management
- Fitness for Service assessment; Level -I Assessment
- Level -II Assessment
- Level -III Assessment
- Root cause failure analysis
- Corrosion Control Document
- Integrity Operating Windows

PIMCP - PIPELINE INTEGRITY MANAGEMENT & CATHODIC PROTECTION SERVICES

Pipeline operator's objective is to continue providing safe and reliable delivery of oil & gas products to their customers without adverse effect on employees, the public and environment. When pipeline integrity is compromised, the probability of pipeline leakage becomes high.

SGS provides Pipeline Integrity Management Services - PIMS which embodies an error-free, leak-free, spill-free and incident-free continuous operation of a pipeline system whether it is onshore and/or offshore, with no ill effect on health, safety, environment and the economy.

SGS Provides following services:

Pipeline Integrity Management Program

- Managing System Integrity of Gas Pipelines As Per ASME B31.8S
- Managing System Integrity for Hazardous Liquid Pipelines As Per API RP-1160 Integrity management plan
- Performance plan
- Communications plan
- Management of change plan
- Quality control plan

Pipeline Integrity Management Plan

- Data Management & Threat Evaluation
- Risk Assessment
- Integrity Verification / Assessment DIRECT ASSESSMENT External Corrosion Direct Assessment (ECDA)
- Internal Corrosion Direct Assessment (ICDA)
- Stress Corrosion Cracking Direct Assessment (SCCDA)
- Cathodic Protection System Solutions – EPCC, Maintenance, Troubleshooting, Audits
- IN-LINE INSPECTION (ILI) (Report Review-Finding's Evaluation)
- HYDROSTATIC TESTING / PRESSURE TESTING (Witnessing)
- Response to ECDA, ICDA, SCCDA, ILI, Pressure Test
- Remaining Strength Evaluation of Corroded Pipelines:
- Remaining Strength Evaluation of Dented Pipelines:

Smart Piggig – SGS Solution

Solutions For:

- Un-piggable lines (high amounts of sediments, difficult geometries, large consequences of stuck pigs, subsea lines,
- Fast corroding pipelines, flow lines from well head to processing units,
- Generally for upstream assets

Cathodic Protection System Solution – EPCC

- SGS is contributing profoundly in corrosion protection solutions to all our valuable clients by providing complete solution of Cathodic Protection System's Design / Engineering, Procurement, Construction & Commissioning services for Pipelines & Tanks either onshore & offshore structures.
- We are proving one window solution for both type of cathodic protection systems as:
- ICCP – Impressed Current Cathodic Protection System
- SACP – Sacrificial Anode Cathodic Protection Systems
- Cathodic Protection Systems – EPCC, Design / Engineering,
- Procurement,
- Construction,
- Commissioning
- Maintenance – Rehabilitation – Consultancy
- Structure / Asset Covered in Cathodic Protection Systems Solution: Pipelines
- (Onshore & Offshore)
- Well's Casings

- Tanks (Aboveground Storage Tanks, Buried / Semi buried Tanks, Vessels & Bullets)
- Offshore Asset Jetty Piles, Structure Columns, Jackets, Pipelines, Sheet Piles/Berth, Docks,
- Vessels SACP – Sacrificial Anode Cathodic Protection Systems
- Anti Fouling CP System - ICAF (Impressed Current Anti Fouling CP System)

Cathodic Protection System Solution – Audits Consultancy

- Cathodic Protection Systems – Audits, Trouble Shooting
- Consultancy
- Remaining Life Assessment, Efficiency Evaluations
- Repair Management & Mitigation
- New Installation - Maintenance – Rehabilitation – Consultancy

Pipeline Aboveground Surveys

- Direct Current Voltage Gradient (DCVG) Survey
- Alternating Current Voltage Gradient (ACVG) Survey
- Current Attenuation Survey by Pipeline Current Mapper (PCM)
- Close Interval Potential Survey (CIPS)
- Pipeline Elevation Profile Survey
- Pipeline Coating Holiday/Pinhole Detection
- Cathodic Protection Systems Efficiency Audits (CP SURVEYS)
- Pipe to Soil Potential Survey (PSP)
- Underground Pipeline Locating & Mapping Service
- Underground Cable Locating & Mapping Service
- Soil Resistivity Survey
- pH Evaluation (in the ditch examination)
- High Voltage AC Transmission Line Interference Testing
- Stray Current Mapping
- CP System Consultancy

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