

To keep the people safe,  
the assets integrated and  
the environment preserved  
we protect you from  
corrosion.



ATLAS ENERGY  
TECHNOLOGY Ltd.

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A Corrosion  
Control and  
Integrity  
Management  
Company



## Pipeline Integrity Management

- ECDA
  - Pre-Assessment
  - Indirect Inspection
    - PCM
    - ACVG
    - CIPS
    - DCVG
    - AGIT
  - Direct Inspection
  - Post-Assessment
- ICDA, SCCDA
- Hydro-test Engineering Services
- Unpigable Piping/Pipeline



## Cathodic Protection

- **Field Testing:** Current density, Current/Potential distribution, Soil pH, SRB test, Soil Resistivity
- **Basic engineering and design:** Pipeline, Storage tanks (Internal & external), Reinforcement Steel in Concrete, Condenser, Heat Exchanger, Jetty, congested site and corridor
- **Procurement :** SACP & ICCP Anodes, Insulation Kits and CP Coupon
- **Installation:** CP Ground Bed, Cabling, Rectifier, boxes, Underwater, Pin brazing
- **Commissioning, Trouble shooting & Maintenance**
- **Remote Monitoring (Metricor)**
- **NACE certified engineering service**



## AC interference and corrosion (Metricor)

- **Field investigation:** specialized CP Coupon installation, pipeline geometry in related to HVOL and CP devices readout
- **Data Logging:** Off potential, AC and DC current, AC and DC potential, Local soil spread resistance and real corrosion rate in soil at location influenced by interference
- **Data Interpretation :** Interpreting the logged data and of qualitative AC corrosion risk analysis
- **AC Mitigation design:** CP power source adjustment and AC mitigation electronics





## Dynamic/Static Stray Current (Metricorr)

- **Field survey and data gathering:** pipeline, CP system, HVOH route and geometry, Historical data, traction and electricity distribution interview.
- **locating pick-up and discharge points:** P/t , Beta Curve ,specialized multi-channel time stamped data logger and rail segments electrical continuity and resistance survey
- **Stray current mitigation design:**(engineered unidirectional capacitive/resistive bonding, Diode(Ge, Si), ICCP, FDU, NDU, ground bed)
- **Other services:** Procurement, Installation and commissioning monitoring and maintenance of stray current mitigation devices

Static Interference assessment can be conducted by PCM or non-synchronic/unsymmetrical Interruption of other CP system to detect the source of interaction.



## Corrosion Monitoring

- **Design :** Basic and detailed engineering, endorsement, Tailor made probe and instrument design for high temperature and critical industry
- **Procurement:** Retractable /Retrieval corrosion Coupon, ER probe ,LPR probe, EN Probe, Access Fittings and Service Valve
- **Specialty Hydrogen monitoring:** Capture foil, Hydro steel, Conventional intrusive Probe and Patch Probe
- **2" Hot taping services**

## Vapor Phase Corrosion Inhibitor

- **Soil side corrosion of tank bottom:** Prescribe inhibitor dosage after UT and MFL test, Design injection system for inhibitor periodical Make Up, Monitor effectiveness of vapor phase inhibitor.
- **Corrosion Inside pipeline Casing:** Estimate external corrosion risk inside casing, Feasibility of inhibitor Injection, GWI Test, Prescribe type and dosage of gel inhibitor
- **Electronic Board & Equipment:** Determine type of corrosion and alloys in system, Required dose of vapor phase inhibitor, utilize vapor phase inhibitor or Coating content inhibitor
- **Oil and Gas Industries:** Up, middle and down streams
- **Corrosion of Reinforcement steel in concrete(MCI):** Use of Migratory Inhibitor for corroded steel, Use of paint content inhibitor on steel, Add up MCI to concrete mixture for new structure





## Marine structure Integrity Management

- **Cathodic protection Inspection:** CP Potential, Anode status(Drop cell, diver, ROV)
- **UT/FMD Inspection:** Legs and pile thickness measurement and flooded member detection
- **Shallow water and landfall CP survey.** Combined techniques

## Corrosion Engineering

- **Furnace and boiler tube:** In house developed combined method for remaining life time estimation
- **Corrosion Under insulation:** Procedure development based on most updated code, standard and best engineering practice
- **Corrosion management**
- **Sour gas services:** Material selection, Standard compliance survey, corrosion control consultancy
- **Pipeline internal flow regime and internal corrosion modeling.**
- **Underground pipeline coating repair.**
- **CRA material/equipment:** Valve, fitting ,piping ,pumps, Plate ,Bar

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