

# Cathodic Protection Services

ENGINEERING, CONSTRUCTION, MAINTENANCE & INDIRECT INSPECTION



A HIGHER LEVEL  
OF RELIABILITY®



**ACUREN**

# Cathodic Protection Services

Acuren's Cathodic Protection is part of our Pipeline Integrity Program that supports our Midstream Integrated Integrity Solutions. The Pipeline Integrity full-service program incorporates the best in Cathodic protection while leveraging support from our other pipeline solutions. Acuren's proven capabilities and readily available resources creates synergies to reduce client costs.

- Efficient designs that lead to reduced long-term operating costs
- Material selection
- Installations that are sourced locally to maximize cost savings
- Annual surveys with an engineering approach geared to lowering costs
- Monitoring
- Ongoing maintenance
- Data management that is digitally captured to reduce reporting time

## ENGINEERING & CONSTRUCTION

- Manage all aspects of the construction of cathodic protection systems including:
  - ◊ System design
  - ◊ Material selection
  - ◊ Pre-job one calls and ground disturbance notifications
  - ◊ Coordination of any required subcontractors
  - ◊ Installation and commissioning
- AC mitigation
- A full report and as-built drawings of all installations is provided within 30 days of project completion
- Commission newly installed cathodic protection systems immediately following construction or connections of new pipelines into existing cathodic protection systems
- Turn-key direct assessment programs
  - ◊ Pre-assessment – review of current and historical data, determine feasibility, tool selection, define regions
  - ◊ Indirect Survey services
  - ◊ Direct Examination / exploratory digs evaluation
  - ◊ Post-assessment – root cause analysis, mitigation determination, severity ranking, reassessment interval, remaining life calculations

## MONITORING & MAINTENANCE

- Annual compliance surveys, traditional or RMU method
- Ongoing maintenance and remedial repairs
- Remote monitoring installation and management
- Data management

## INDIRECT / OVER-THE-LINE INSPECTION

- Direct Assessment Programs
- Depth of cover
- Close Interval Potential Survey (CIPS)
- ACVG / DCVG Survey
- Soil resistivity measurements
- Right of way status and points of interest
- Current attenuation



## WHY ACUREN?

- Digital Data Capture
- Field crews create final report – eliminates mistakes and allows for firsthand knowledge to be utilized in the report
- Data is fully reviewed by QA personnel to engineering standards with enhanced productivity tools
- Reduced landowner impact – faster data acquisition, and less signal drops, results in reduced impact and risk to landowners

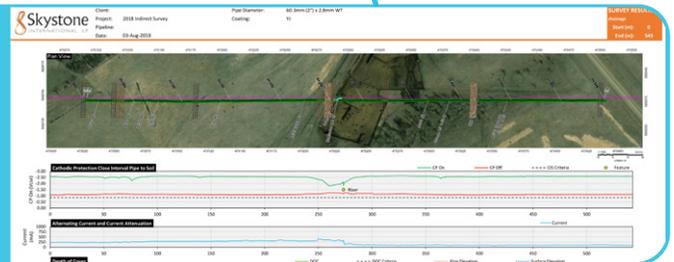


# One System, One Data File, Maximum Productivity



CSV file can be uploaded directly into customer's system – no proprietary software required.

HawKeye is a reliable and robust over-the-line survey solution that acquires, and compiles, data from a variety of testing methods through a single scan, into a consolidated report and output data set utilizing GPS to align results.



## SIMULTANEOUS DATA ACQUIRED BY HAWKEYE

### Standard services included:

- GIS / GPS Decimeter Location
- Depth of Cover
- Current Attenuation
- Right of way status and points of interest

### Additional services available:

- Close Interval Potential Survey (CIPS)
- Alternating Current Voltage Gradient (ACVG)
- Direct Current Voltage Gradient (DCVG)

## HAWKEYE SYSTEM FEATURES

- Utilization of three constellations to minimize signal drops
- Digital signal processing filters remove noise and separates signals without having to add external filters
- Analysis algorithm uses the entire collected waveform
- Data overlaid on Google Earth along with legal land description
- GIS compatible – uploadable into owner systems
- Data stored on hard drive in the field – less risk of data loss

## WHY HAWKEYE?

- **Beyond max/min** – unlike other systems which just measure max and min, HawKeye utilizes high speed (up to 200 Khz) digitizing with complete waveform analysis for all data streams
- **Precision** – utilizes sub-decimeter (3-5 cm) GPS positioning for improved accuracy
- **Stability** – system can operate on wifi or bluetooth connections for better stability
- **Robust reporting** – utilizes satellite imagery rather than schematics and can be overlaid with Google Earth and legal land description
- **No proprietary encrypted software** – raw data available in a transparent .csv file
- **Data management** – owners can upload, manage and utilize the data within their own systems

BEYOND INSPECTION



Engineered approach to  
CP allows for estimated  
20-40% cost savings



VIEW OUR BROCHURES



CONTACT OUR CATHODIC PROTECTION EXPERTS TODAY

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