

AC Interference & Mitigation Solutions

ASSESSMENT, ENGINEERING, CONSTRUCTION & MAINTENANCE



A HIGHER LEVEL
OF RELIABILITY®



The diagram illustrates a multi-lane highway interchange. A horizontal road with multiple lanes is shown, with a red car in the leftmost lane. A vertical road intersects from the top. Various traffic signs are present: a red octagonal 'STOP' sign at the top intersection, a green pentagon 'AHEAD' sign, a blue square 'ONE WAY' sign pointing up, and a blue square 'ONE WAY' sign pointing down. Lane markings include a red dashed line, a green dashed line, and a blue dashed line. A red car is also shown in the bottom lane. The diagram is labeled with '1-Exit Turn', '2-Exit Turn', '3-Exit Turn', and '4-Exit Turn'.

- Consultative approach to maximize benefits between powerline and pipeline stakeholders
- Designs optimized for regulatory compliance and reducing long-term operating costs

- Locally sourced materials & labor to generate cost savings
- Periodic surveys that seamlessly integrate with other Acuren PLI services

Acuren is well-versed in the numerous regulations and standards governing AC mitigation:

- International: NACE SP0177, IEEE 2746
- USA: 49 CFR §192, OSHA 29 CFR 1910
- Canada: CSA C22.3, CSA Z662

- Construction of new powerlines or pipelines in shared right-of-ways
- Pipeline assets near electrical substations & power plants (gas, nuclear, solar, wind)
- Powerline poles or towers near pipelines or CP systems
- Measured pipeline AC voltages during survey

Trusted and reliable end-to-end engineering solutions,
including:

- Coordination of data collection and field services
- Execution of modelling, analysis, and design reports
- Preparation of drawing packages and equipment specifications
- Full-service construction, materials sourcing, and commissioning
- Long-term monitoring and data management

- Define and refine work scope to project requirements
- Manage data collection between pipeline and powerline stakeholders
- Focused engineering design, emphasizing asset integrity (AC corrosion, coating stress) and safety (touch voltages, gradient control)
- 30 day design report guarantee, upon fully complete data collection

- Periodic compliance surveys, easily integrated with other Acuren PLI services
- Remote monitoring, data management, and system analytics
- Investigation studies for AC related deficiencies

- State-of-the-art AC modelling and analysis software
- Field services integration with HawkEye
- NACE certified and published engineers, leveraging extensive project experience to deliver optimized solutions
- Innovative design efficiency tools, generating cost savings and expedited timelines

- Customized materials and equipment selection
 - ◆ Deep & shallow ground well
 - ◆ Horizontal mitigation wire
 - ◆ AC coupons and RMU devices
 - ◆ DC decouplers at facility transitions
- Coordination of field services, leveraging Acuren's extensive network of staff and contractors
- Comprehensive QA/QC program, installation, and commissioning procedures



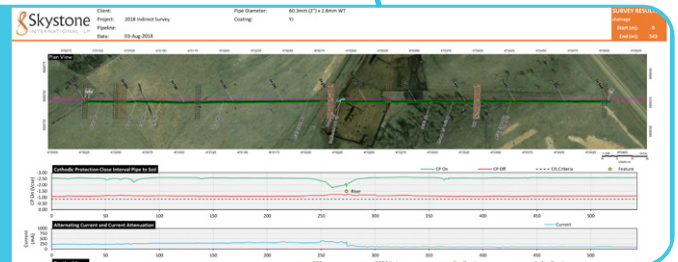
One System, One Data File, Maximum Productivity



**ALL SURVEYS CAN
BE COMPLETED IN
ONE PASS = COST
SAVING TO CLIENTS**

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
AC allows for estimated
25% cost savings



VIEW OUR BROCHURES



CONTACT OUR AC INTERFERENCE & MITIGATION EXPERTS TODAY

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