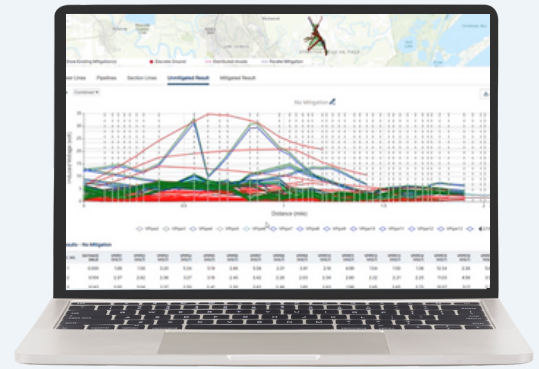# AC MITIGATON POWERTOOL

Analyze pipelines and powerlines to truly understand, model and mitigate underground pipelines with alternating induced current.

The Technical Toolboxes AC Mitigation PowerTool (ACPT) provides a comprehensive solution to model, map, and mitigate AC induced corrosion related problems for unlimited segments of buried pipelines running near and parallel to high electrical voltage powerlines.

ACPT effectively predicts both steady state and fault conditions on pipeline sections to produce quality mitigation solutions at optimized costs. ACPT uses apparent resistivity to generate accurate fault calculations for variable depth of cover and can quickly analyze new/existing pipelines and powerlines to model multilevel Barnes layering and soil resistivity, coating stress voltages, and potentials for touch, step, surface, and ground.

AC current density effects can be reduced using ACPT while meeting both client specifications/criteria and standards specified by the National Association of Corrosion Engineers (NACE). The different types of mitigation supported in AC Mitigation PowerTool are discrete ground, distributed anode grounds, and parallel mitigation wire placement.

KEY FEATURES

- **Comprehensive Reporting:** Automatically generate detailed reports that support compliance with industry standards regulatory requirements
- **User-Friendly Interface:** Designed with the engineer in mind, the ACPT features an intuitive interface that simplifies data input and analysis, making advanced AC mitigation strategies accessible to all levels of expertise
- **Reduce Field Time & Cost:** Identify design issues and appropriate mitigation plans to avoid catastrophic future events
- **Advanced Simulation Capabilities:** Model complex scenarios, including varying soil resistivities, multiple power lines, and the cumulative effects of adjacent pipelines

ADVANCED FUNCTIONALITY

Multiple Powerline Analysis

Facilitates simultaneous evaluation of multiple powerlines to efficiently predict their impact on underground pipelines.

Import with Ease

Import GIS/Shape, KMZ, KML, geodatabase (GDB) and Lat/Long files for accurate geospatial referencing and reduced manual inputs.

Mapping

Incorporates advanced mapping features from ArcGIS and Google to provide comprehensive geospatial context, enhancing the accuracy of simulations and the design of mitigation plans.

Soil Resistivity

Enables detailed modeling of multilevel Barnes layering to accurately assess soil resistivity and its influence on pipeline corrosion.

FIND OUT MORE

Learn more about Pipeline HUB's **AC Mitigation PowerTool** capabilities and **schedule a demo** to see it in action.

ABOUT TECHNICAL TOOLBOXES

Technical Toolboxes is the global leader of integrity analytics for pipelines to help solve the growing, complex challenges they face across crossings, corrosion, welding, and more. Our modern software platform provides a simple way to get the most accurate pipeline engineering calculations so that you can increase team productivity and improve compliance while decreasing risk. We enable energy companies to move away from rudimentary calculations and processes to a world of fast, secure, scalable pipeline insights you can trust.

To learn more about Technical Toolboxes and the Pipeline HUB, go to **www.technicaltoolboxes.com**.