



AC Mitigation Solutions

With the growing demand to share rights-of-ways with high voltage power lines (HVPLs), there is the need for interference and corrosion mitigation solutions for pipelines. AC mitigation for pipelines can be designed, installed, and maintained to minimize the induced voltage on the system. HMI Technical Solutions (HMITS) performs AC mitigation analysis and design on various assets that are collocated with HVPLs.

HMITS provides AC mitigation solutions, from engineering and field surveys to design, installation support, and inspection. All installation services are performed by engineers, inspectors, and technicians that have industry-leading NACE International certifications and operator qualifications.

Each project is managed with care and attentiveness while adhering to environmental compliance requirements throughout the process. HMITS ensures that safe and reliable infrastructure is always the focus.



A typical SSD in a fiberglass ground enclosure



Pole mounted fiberglass enclosure for typical SSD

Shared Right-of-Way Surveys

- GPS locating of above ground facilities
- Soil resistivity measurements
- Visual inspections of both power and gas facilities/infrastructure
- AC and DC voltage measurements
- Light Detection and Ranging (LiDAR) for dimensioning of existing power and above ground gas facilities

AC Mitigation Analysis

- Modeling complete right-of-way system
- Analysis of existing mitigation solutions
- Evaluation of electrical model under steady state and fault conditions

AC Mitigation Solution Recommendations

- Mitigation recommendations based on specific project needs
- Recommended mitigation solutions consider construction means, methods and best practices

AC Mitigation Solution Installation

- Project management
- Permitting
- Installation of proposed mitigation solutions
- Third Party inspection of installation
- As-built packages
- Post installation AC and DC voltage measurements along right-of-ways

Commitment to Safety

HMI Technical Solutions (HMITS) extends safety to every aspect of work. Safety drives the development of impeccable work practices and is at the core of the way behavior is observed, communicated, and investigated. HMITS follows a daily safety management system of leading and lagging indicators, including coaching observation trends, work site audits, good catch and near miss reports, corrective action follow-ups, total recordable incident rates, days away, and restricted duty and transfers. With these indicators, HMITS performs trend analysis and program validation of safety performance. This vigilant evaluation and implementation of company and industry-wide best practices make certain HMITS maintains the absolute highest safety standards to protect our workers, our clients, and the community. HMITS' daily mission is to ensure "Nobody Gets Hurt!"

About

HMITS provides results-driven engineering, design, and integrated solutions to the power, oil & gas distribution, and communications industries. HMITS' best-in-class services include design, asset integrity management, feasibility studies, surveys, constructability reviews, and turnkey delivery services within these core utility segments. With a genesis in construction and a skilled team of multidiscipline engineers and project management professionals, the privately-held firm brings a deep understanding of infrastructure to every project.



To learn more about our service offerings and HMI's commitment to safety, quality, and performance, please contact us or visit our website.



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