



Mears Group, Inc.

A QUANTA SERVICES COMPANY

THE VALUE OF EXCELLENCE MEARS INTEGRITY SERVICES

T.C.A.T.

FOR TOWER CORROSION ANALYSIS TOOL

Mears developed the T.C.A.T. application and uses tablet computers to enhance data collection to provide the analysis of steel tower corrosion likelihood and long-term project management of tower corrosion concerns.

VISION FOR T.C.A.T.

- Enhanced data quality
- Data security
- Unified management of corrosion analyses and images
- GIS integration
- Improved efficiency
- Reporting
- Remaining strength analyses

T.C.A.T. COMPONENTS

- Hardware
- Web-based database
- T.C.A.T. proprietary software
- Digital pit gauge

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INTEGRITY SOLUTIONS

PREVENTION ▲ INSPECTION ▲ REMEDIATION

Mears developed the T.C.A.T. application and uses tablet computers to enhance data collection to provide the analysis of steel tower corrosion likelihood and long-term project management of tower corrosion concerns. It includes the following inspection benefits:

TABLET COMPUTER

- Live entry into the database allows for quality checks to be performed as the data is entered.
- Remote database synchronization occurs whenever the tablet has wireless service. This remote backup ensures data will not be lost if the tablet is damaged or lost.

SQL DATABASE

- Database is fully customizable to the client's tower configuration.
- All data and pictures collected are stored in a database for enhanced access and analysis to facilitate incorporation into GIS applications permitting risk analysis of all parts of the data.
- Custom reports summarize the results of testing, risk analysis, and tower status.

RISK ANALYSIS

A proprietary risk analysis tool can be utilized to prioritize the examination or repair of individual towers or circuits.

The tool considers:

- The relative risk of failure for each leg to the other legs assessed and the overall relative risk by all legs comprising the towers assessed.
- The relative risk analysis can be performed on all towers visited or on an individual circuit.
- The risk tool is continually improved as Mears incorporates Bayesian updates from the tower assessments being performed by all our clients.
- The tool is linked to Google™ Earth, so the location of the high risk towers can be viewed and other geographic or access issues considered.

PROJECT MANAGEMENT

- The tower records are managed by using project status ranging from "Proposed" to "Mitigated" or "Repaired," which enhances the client's ability to track progress on mitigating the problems identified during the field testing.
- Sub-meter GPS is incorporated to accurately locate the tower legs and ensure that the data is logged to the correct leg on the correct tower.



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MEARS INTEGRITY SOLUTIONS OFFERS A COMPREHENSIVE PROGRAM TO KEEP YOUR FACILITIES UP TO EXCEPTIONAL STANDARDS.

We specialize in the following Integrity Solutions:

AC Mitigation Services Package

Analysis, design, installation and commissioning

Direct Assessment

ECDA, SCCDA and ICDA integrity services

Cathodic Protection

Design, testing and installation

Pipeline Recoating

Automated abrasive blasting and spray-on coating application, including excavation, construction, etc.

Linear Anodes

Design, testing and installation

Hydrostatic Testing Services

Innovative planning, design, testing

