

Corrosion Management

Distribution Poles

Padmounted Transformers

Street Lights

Lattice Towers

Anchors

Transmission Poles





Corrosion Management



Borescopic Exam



Ultrasonic Thickness Test



Zinc or Coating Thickness Test



Soil Resistivity



Corrosion Voltage Potential

The **PMC Corrosion Program** is the most practical approach to corrosion management available to electric utilities. Corrosion always affects embedded steel. Usually the initial corrosion protection system is sufficient to protect the steel over its projected service life. However, corrosion is a complex process and the speed at which corrosion consumes metal can vary greatly. Most buried steel components will exceed their projected service life. However, some buried steel components have been found to exhibit severe corrosion that could eventually lead to premature failure. The corrosion process has been so confusing and seemingly unpredictable that most electric utilities, already facing budget cuts, have chosen to do nothing until there was a failure. PMC has developed an affordable corrosion management program for buried steel components.

Run to failure is no longer a viable option.

PMC offers a three phase corrosion management program that enables managers to stretch scarce resources by identifying steel exposed to aggressive corrosion, repairing any damage, and implementing an appropriate method to protect the steel. History has shown that only a small percentage of embedded steel will have its service life shortened by corrosion, and that by identifying the threatened steel and taking appropriate steps, a full service life can be attained.

PMC Three Phase Program for Corrosion Management

Phase 1. Site Inspection: PMC technicians will visit each site and inspect for corrosion damage and environmental factors that influence corrosion. Any damage will be quantified and corrosion influence data will be collected from the site. This PMC screening process identifies at-risk components. (100% of sites inspected)

Phase 2. Remediation: PMC crews will repair damaged members to meet or exceed original design load specifications in cooperation with your engineering and maintenance groups. (approximately 0-8% of inspected sites)

Phase 3. Protection: PMC crews will excavate, prep & apply coatings, install cathodic protection and/or alter the site as part of a comprehensive corrosion management program. This process focuses on repaired sites plus sites expected to exhibit damage before the next inspection cycle. (approximately 0-24% of inspected sites)



Pole Above Grade



Pole Below Grade



Tower at Groundline



Padmounted Transformer

PMC is a participant in:

- Veriforce - Pipeline Operators QC Compliance
- NACE - National Association of Corrosion Engineers
- SSPC - Steel Structures Painting Council
- ASCE - American Society of Civil Engineer
- IEEE - Institute of Electrical & Electronics Engineers
- WEI - Western Energy Institute