

Osmose® Total Corrosion Program

Anode System for Guy Anchor Protection

A Pole Is Only As Strong As Its Weakest Guy Anchor

How secure can a utility pole be if its guy anchors are weakened by corrosion? Do you know the condition of the thousands of guy anchors that play an integral role in the structural integrity of your utility poles? Osmose, the leader in predictive and preventative maintenance in the utility industry for more than 70 years, offers the **Anode System for Guy Anchor Protection** as a part of our **Total Corrosion Program**. Now you can stock a simple and affordable kit to provide cathodic protection against guy anchor corrosion.

The Problem: Corrosion

Each year ferrous metals lose 20 pounds of mass for every amp of corrosion current that is present. Corrosion occurs when metallic structures come into contact with electrolytically conducting environments ~ those containing ions in sufficient numbers to conduct electricity ~ such as soil and water. Some amount of corrosion is *always* present, though the rate at which corrosion progresses depends on moisture levels and other environmental conditions.

The Solution: Cathodic Protection

Cathodic protection reduces the rate of corrosion by passivating the surface of the steel, thereby reducing corrosion potential. The Osmose **Anode System for Guy Anchor Protection** uses sacrificial anodes with a corrosion potential lower than the guy anchor to be protected. The principles used to develop this kit have been used effectively for decades as the primary method of preventing corrosion in water heaters, buried pipelines and ocean-going ships.

Most Frequently-Occurring Forms of Corrosion		
Corrosion Type	Frequency	Damage
General	***	*
Pitting/Crevice	**	**
Galvanic	***	*
Stray Current	*	***
Concentration Cell	*	***
Metal Ion Cell	**	**
Fatigue	*	***
Microbial	**	**
Multiple Corrosion Cells	*	?



Osmose Is Active In:

- National Association of Corrosion Engineers
- Society for Protective Coatings
- American Society of Civil Engineers
- National Electrical Safety Council
- Dept. of Transportation Office of Pipeline Safety
- Institute of Electrical and Electronics Engineers

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“Locate. Restore. Protect.”

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