

# Ultrasonic Pole Testing

Our Ultrasonic Pole Testing uses the latest technology and our skilled technicians to determine the pole's condition. Unsafe poles are identified, qualified, and can be replaced before any accidents, claims, or outages occur.

With property inspection, we provide a detailed report including:

- Descriptions and pole specifications
- Photos of each pole
- Visual inspection notes
- Ultrasonic test results
- Recommendations

We extend our services for pole removal, replacement, adjusting or re-bolting. With our quote we can further recommend fixtures with improved optics, LED efficiency, or galvanizing features to further inhibit rust.



Latest- NDT Certified  
Ultrasonic Thickness  
Gauge



Level and Re-Secure Loose  
Nuts



Pole Replacement












Positive Identification of  
Dangerous Corrosion

# Ultrasonic Pole Testing Report

Date: 5/23/2011  
 Property:  
 Pole Type: Steel, 7 Gauge, Round  
 Manufacturer: Imperial Poles  
 Dimensions: 26' tall from ground to fixture



Pole #	Photo	Visual Inspection	Ultrasonic Test Results				Recommendations
15		VERY heavy rust and corrosion. Visible hole rusted through the pole.	<u>Side 1</u> .140	<u>Side 2</u> .142	<u>Side3</u> .138	<u>Side 4</u> .142	 Remove and Replace ASAP. Safety Hazard.
16		Pole could fall at anytime. Very heavy rust and corrosion. Visible hole rusted through the pole. Visible dent in pole.	<u>Side 1</u> .132	<u>Side 2</u> .123	<u>Side3</u> .117	<u>Side 4</u> .134	 Replace ASAP. Safety hazard.  Removed: 5/24/2011
17		Light rust on face plate. Heavy paint.	<u>Side 1</u> .175	<u>Side 2</u> .152	<u>Side3</u> .152	<u>Side 4</u> .155	5-20% Corrosion
18		Mild rust on face plate. Heavy paint.	<u>Side 1</u> .162	<u>Side 2</u> .149	<u>Side3</u> .160	<u>Side 4</u> .149	10-20% Corrosion
19		Mild rust on face plate. Heavy paint.	<u>Side 1</u> .122	<u>Side 2</u> .121	<u>Side3</u> .117	<u>Side 4</u> .118	35-40% Corrosion, Recommend Replacing
20		Missing two nuts. Mild rust on face plate. Heavy paint.	<u>Side 1</u> .174	<u>Side 2</u> .151	<u>Side3</u> .150	<u>Side 4</u> .152	5-20% Corrosion
21		Mild rust on face plate. Heavy paint.	<u>Side 1</u> .142	<u>Side 2</u> .145	<u>Side3</u> .161	<u>Side 4</u> .159	15-25% Corrosion

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**Property:**  
**Pole Type:** Steel, 7 Gauge, Round  
**Manufacturer:** Imperial Poles  
**Dimensions:** (26' Height from ground to fixture)

Percentage of Corrosion	7 G/0.1875 Inches
5%	0.178125
10%	0.16875
15%	0.159375
20%	0.15
25%	0.140625
30%	0.13125
35%	0.121875
40%	0.1125
45%	0.103125
50%	0.09375
55%	0.084375
60%	0.075
65%	0.065625
70%	0.05625

Recommend Replacement of Poles when Percentage of Corrosion Reaches 40% or Higher.