



ANCHORGUARD®

CORROSION CONTROL SYSTEM FOR TOWER ANCHORS

2224 East 39th Street North Sioux Falls, SD 57104 (800).653.3392 605.332-7833 fax

"We're good at what we do!"

SURFACE ANCHOR INSPECTION FOR ABC COMMUNICATION'S

Anywhere, TX SITE

This is an actual inspection report. Minor changes have been made to protect the privacy of the tower owner.

Report Completed: 13 April 2006



NOTE: This report represents a visual condition assessment of the upper portion of the buried guy anchors and gives other site conditions. It is inconclusive in determining the structural integrity of the tower or complete guy anchor(s). It is the responsibility of the owner to use the data to determine if further investigation is warranted. In order to determine structural integrity of the anchors a full inspection including excavation of the entire anchor shaft is required.

GUY ANCHOR CONDITION INSPECTION REPORT	
Site Owner: ABC Communications	Tower Manufacturer: PiRod
Site Number:	Manufacturer's Tower ID: unknown
Site Name: Anywhere, TX	Approximate Elevation – top of steel: 300'
Date: 13 Apr. 2006	Number of Anchors: 6
Inspectors: T. K. & J. V.	

ABOVE GROUND ANCHOR POINT INSPECTION	YES	NO	Comments – include photos if necessary.
1. Is there substations within 1500 feet of the site?		X	
2. Is there marked underground pipelines in the vicinity?		X	
3. Did you have to remove and replace the anchor fencing?		X	How many man hours? 0
4. Is there standing water at the anchors?		X	
5. Are there signs of flooding?		X	
6. Is there agricultural use around the anchors (fertilization)?		X	
7. Are there high voltage transmission towers in the vicinity?		X	
8. Was cathodic protection installed prior to inspection?		X	Date:
9. Did you collect a sample of soil from 1' below grade?	X		
10. Measure and give soil resistivity.			5,150 ohm/cm – as received 57 ohm/cm – saturated (extremely low)
11. Measure and give pH of soil at 1' below grade.			7.43
12. Measure and give soil moisture content at 1' below grade.			11.1%

Anchor Number	Anchor Direction	Inner or Outer	Anchor Shape – i.e. round, flat, angle, beam, channel, etc.	Anchor Diameter/Dimensions A – Above Grade B – Below Grade	Material Loss % at worst spot Note: Surface investigation will not indicate material loss at greater depths.	Corrosion Severity Factor as Measured in Worst Case Anchor Segment (See descriptions below)
1	Southeast	outer	dual round	1.265" A – 1.247" B	1.5%	2
2	Southeast	inner	dual round	1.285" A – 1.233" B	4%	3
3	North	outer	dual round	1.263" A – 1.239" B	2%	3
4	North	inner	dual round	1.273" A – 1.276" B	negligible	1
5	Southwest	outer	dual round	1.264" A – 1.264" B	negligible	2
6	Southwest	inner	dual round	1.282" A – 1.243" B	3%	3

RECOMMENDED ACTION
Recommended Action: Completely excavate to concrete block to inspect the integrity of entire anchor shaft. AnchorGuard was installed at the date of this inspection.

CORROSION SEVERITY FACTOR COMPARED TO WORSE CASE ANCHOR SEGMENT
CSF 1: Galvanizing in tact, no signs of rust, no cross sectional material loss. Anchors rated CSF 1 should be monitored in the future during regular tower inspections.
CSF 2: Galvanizing slightly to mostly gone, rust spots prevalent, minor pitting or flaking, no cross sectional material loss. Additional corrosion control is highly recommended.
CSF 3: Galvanizing mostly to completely gone, heavily corroded, deep pitting, large areas of flaking, measurable cross sectional material loss. Anchors rated CSF 3 require additional corrosion control methods and may require remedial action to the shaft.

Anywhere, TX Photos Page One – Southeast Outer Anchor



Anchor Compound



C to G Reading



Partially Exposed



Close-up



Caliper Reading – Above Grade



Caliper Reading – Below Grade



Anchor Compound



Partially Exposed & C to G Reading



Close-up (2 Foot Below Ground Level)
Note: Cracking of galvanized coating



Close-up (2.5 Feet Below Ground Level)



Caliper Reading – Above Grade



Caliper Reading – Below Grade



Anchor Compound



C to G Reading



Partially Exposed



Close-up



Caliper Reading – Above Grade



Caliper Reading – Below Grade



Anchor Compound



C to G Reading



Partially Exposed



Close-up



Caliper Reading – Above Grade



Caliper Reading – Below Grade

Note: Bent shaft 2.5 feet below ground level



Anchor Compound



C to G Reading



Partially Exposed



Close-up



Caliper Reading – Above Grade



Caliper Reading – Below Grade



Anchor Compound



Partially Exposed & C to G Reading



Close-up (2 Foot Below Ground Level)



Close-up (2.5 Feet Below Ground Level)



Caliper Reading – Above Grade



Caliper Reading – Below Grade

Anywhere, TX Photos Page Seven – Overall Tower Photos



Tower Base



Tower Top



Tower Profile