



Tower Inspection Report

PO Box 40245, Houston, TX 77240
 Tel: 832-237-5888 Fax: 832.487.8050
 www.pexx.net

Customer:			
Site Name:		FCC Tower Reg.#	
Site Manager:		Contact Number	
Site Location:			
City/State		County	Austin
Latitude:		Longitude	
Elevation AMSL:		Tower Height	
Reference Maps			
Site supervisor description of possible deficiencies:			
TOWER INFORMATION			
Safety Equip	Anti-Fall Equip		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> NO
	If yes, what type?		
	Climbing Facilities:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> NO
If yes, what type?		Ladder	
Members	<input type="checkbox"/> Bent	<input type="checkbox"/> Loose	<input type="checkbox"/> Missing <input type="checkbox"/> Other <input checked="" type="checkbox"/> All Good
	Details of Deficiencies:		
Finish Condition	<input type="checkbox"/> Paint	<input checked="" type="checkbox"/> Galvanize	
	FAA Color Tolerance:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Repaint
If Tubular	Are Weep Holes Clear	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Solid
	Is Water Trapped?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Solid
Lighting	Is Tower Lighted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> Conduit (3/4" Rldged)	<input checked="" type="checkbox"/> SO Cord	
	Junction Boxes Secure?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Junction Box vents open?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> No	
	Flasher Operational?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Photo Control Tested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> no good <input type="checkbox"/> No	
	Light Lenses Condition?	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Replace	
	<input checked="" type="checkbox"/> Strobe	Makes: TWR	Model:
	<input type="checkbox"/> Side Lights and Beacons:	<input type="checkbox"/> Replaced	# of Bulbs: 3
	Details:	<input type="checkbox"/> Yes	
Grounding	Lightning Rod?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Pres <input type="checkbox"/> Exothermic	
	Is Lightning Rod Tallest Point?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Down Conductor?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Pres <input type="checkbox"/> Exothermic	
	Ground Rod?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Exothermic	
	Guy Wire Grounds?	<input type="checkbox"/> Good <input type="checkbox"/> Loose <input type="checkbox"/> Replace	
	Transmission Lines	<input checked="" type="checkbox"/> Top <input checked="" type="checkbox"/> Bottom <input checked="" type="checkbox"/> Entry	
	Details or Deficiencies:		



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TOWER INFORMATION CONTINUED			
Customer:			
Foundation condition	Settlements or Movements:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> NO
	Drainage:	poor	
	Grout:	<input type="checkbox"/> Good	<input type="checkbox"/> Poor <input checked="" type="checkbox"/> N/A
	Erosion:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO
	Details of Deficiencies:		
Guy Anchors	Above Grade:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO
	Water Trap:	<input type="checkbox"/> Yes	<input type="checkbox"/> NO
	Condition:	<input type="checkbox"/> Good	<input type="checkbox"/> Poor
	Condition 8" Below Grade	<input type="checkbox"/> Good	<input type="checkbox"/> Poor
	Details of Deficiencies:		
Antenna Mount Conditions			
Wave Guide Bridge	Bridge Type?	Standard	
	Height from Ground?	10	
	Line Support Type?	Butterflies	
	Space Available	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Wave Guide Ladder	Waveguide Ladder Installed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Type:	<input type="checkbox"/> Angle:	<input type="checkbox"/> Standard: <input type="checkbox"/> Snap-In <input checked="" type="checkbox"/> Other/MiniStrut
	Number of Holes Total?		
	Number of Holes Available?		
	Details of Deficiencies:		
Other Details			



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TOWER INFORMATION CONTINUED						
Cross Bracing:	<input checked="" type="checkbox"/> Z Type	<input type="checkbox"/> X Type	<input type="checkbox"/> K Type	<input type="checkbox"/> Other		
Bracing Type:	<input type="checkbox"/> Round		<input checked="" type="checkbox"/> Angle			
Bracing Size:	Length:	7'4"	Width:	2"	Depth/OD	7/16"
Joint Length						
Leg Type:	<input type="checkbox"/> Solid Round		<input type="checkbox"/> Round		<input checked="" type="checkbox"/> Angle	
Leg Size:	Length:	20'	Width:	6"	Depth/OD	1/2"
Width at Base	32' 6"					
Tower Manufacturer						

TOWER VERTICAL ALIGNMENT (PLUMB)							
Transit # 1		180°		Degrees (Magnetic) from North			
Transit # 2		270°		Degrees (Magnetic) from North			
SS Tower	Guyed Tower	Transit #1					
		Left	0	Right	Left	0	Right
Base	Base						
100'	1st Guy						
200"	2nd Guy						
300'	3rd Guy						
400'	4th Guy						
500'	5th Guy						
600'	6th Guy						
700'	7th Guy						
800'	8th Guy						
900'	9th Guy						
Approximate Wind Speed:							MPH

INSPECTOR/SURVEYOR	
Name:	
Date:	
Phone:	
Fax:	
Email:	



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CATHODIC TESTING - ANCHORS

Metal Condition:	<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input type="checkbox"/> Poor	
Cathodic Testing Necessary?				<input type="checkbox"/> Yes	<input type="checkbox"/> NO
IF TESTING NECESSARY -RESULTS					
Inner Anchor:	1	2	3	4	
Voltage Reading					
Outer Anchor	1	2	3	4	
Voltage Reading					

Describe Protection Used (If Applicable):

WHAT READINGS INDICATE

Greater than - 1.65 volts for a structure with magnesium anodes

The maximum voltage output from a magnesium anode is -1.65 volts. If your reading is greater than this, the system could have impressed current cathodic protection rather than galvanic, or there could be stray currents in the vicinity. If it turns out this is NOT an impressed current system, have a corrosion engineer investigate as soon as possible.

Greater than - 1.1 volts for a structure with zinc anodes

The maximum voltage output from a magnesium anode is -1.1 volts. If your reading is greater than this, the system could have impressed current cathodic protection rather than galvanic, or there could be stray currents in the vicinity. If it turns out this is NOT an impressed current system, have a corrosion engineer investigate as soon as possible.

Greater than -0.88 volt

Structure is adequately protected.

"-0.85" volt to "-0.88" volt

Structure still meets the standard for corrosion protection, but there is not much of a safety cushion. Monitor the system closely to determine the rate at which the voltage is dropping and plan on adding anodes or performing other work on the system in the not too distant future.

Less than -0.85 volt

The structure does not meet the -0.85 volt standard for corrosion protection and is out of compliance with regulatory requirements.

"-0.4" volt to "-0.6" volt

Expect this voltage range from steel that has no cathodic protection. This could indicate that the structure was not cathodically protected originally. Or that the anodes are completely utilized. Call in a corrosion engineer to investigate.

"-0.3" volt to "-0.4" volt

Rusty steel will sometimes register down in this range. Call in a corrosion engineer to investigate.

"-0.1" volt to "0.0" volt

This type of reading is most likely to occur if you are measuring the potential of a piece of copper. Most likely the copper wire you are connected to is broken off underground. Find another way to get an electrical connection to the structure you want to monitor.

Variable readings

This could indicate stray currents, but check your meter to be sure that it is operating properly and that all test lead connections are in solid contact with shiny metal.

Wildly fluctuating readings (digital meter)

This probably indicates that one of your test lead connections is not good or that your reference cell is dry. Make sure that all your connections are solid metal to metal. This might also be indicative of extremely dry conditions.