# Tower/Site Field Notebook

Site Name:		
Visit Date:		
Visited By:		

### **General Information**

Location Tower Site Name GPS Latitude GPS Longitude						N W		
<b>Tower</b> Height Type		Guy	]ft Self-Supp	oort	Other		(circle o	ne)
Current Weather Temperature Wind Speed Cloud Condition				°F MPH				
Climbing Facilities Climbing Ladder		Yes/No	Ι		Locat	ion		
Climbing Pegs Safety Climb Cable								
Signage	Other	Site Identif No Trespa RF Warnin FCC Warn	ssing g	Not Present	On Fence	On Shelter	On Tower	Guy Anchor Fence
Tower Orientation (face/side azimuths)				В				

Compound		
Fence Type		
Fence Height		ft
Road Type		
Road Length		ft
Road Width		ft
Gate Width		ft
Access Comments		
Compound Finish		
Compound Comments		1
		J
Building		
Building Exterior Material		
Roof Material		
Roof Type	(Flat/Peaked)	
Building Comments	(i. iau: canca)	]
Zamanig Commonie		
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Tower Geometry	Total Height of Structure (ft):		Tower Manufacturer:	
-	Group 1 - Top of Tower	Group 2	Group 3	Group 4
Elev at Top of Section		·		
Assembly Model				
Top Face Width (ft)				
Leg Size				
Diagonal Size				
Horizontal Size				
Inner Bracing Size				
Flange Bolt Size (t.o. section)				
Flange Bolt Material				
Bracing Bolt Size				
Bracing Bolt Material				
	Crown 5	One.:- 0	O**** 7	Cuping C
EL	Group 5	Group 6	Group 7	Group 8
Elev at Top of Section				
Assembly Model				
Top Face Width (ft)				
Leg Size				
Diagonal Size				
Horizontal Size				
Inner Bracing Size				
Flange Bolt Size (t.o. section)				
Flange Bolt Material				
Bracing Bolt Size				
Bracing Bolt Material				
	Group 9	Group 10	Group 11	Group 12
Elev at Top of Section				
Assembly Model				
Top Face Width (ft)				
Leg Size				
Diagonal Size				
Horizontal Size				
Inner Bracing Size				
Flange Bolt Size (t.o. section)				
Flange Bolt Material				
Bracing Bolt Size				
Bracing Bolt Material				

### **Guys**

	Guy Type	):						,2 or 3)
		Tension	(Pounds)		Size (i	nches)	Torque Arm?	Anchor Radius (1,2 or 3)
		Azimutl	n Angle		Azimut	h Angle	rque	oho
Elevation (AGL, ft)							Τc	Ā

	Gı	uy Ancho	r Radius (	(ft)
		Azimutl	h Angle	
Radius 1:				
Radius 2:				
Radius 3:				

## **Torque Arm**

Shape of Members: Length of Horizontal Members:	
Sketch Top	
Sketch Side	
Sketch Top	

### **Antennas**

_	Ar	ray 1	Aı	ray 2	Aı	ray 3	Aı	rray 4
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter		•		•		•		•
Feedline Face								
Number of Feedlines								
	Δη	ray 5	Δι	ray 6	Δι	ray 7	Δι	rray 8
Antenna Type		Tay 5		Tay 0		Tay I		Tay 0
Antenna Size (ft)								
Radome Type			1		1			
Antenna Manufacturer			1		1			
Antenna Model			1		1			
Antenna Elevation			1		1			
Mount Location			†		†			
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth			†		†			
7 Internita 7 izimati			†		†			
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face Number of Feedlines								

	Ar	ray 9	Arı	ay 10	Arı	ray 11	Arı	ray 12
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								
INUITIBEL OF LEGUILLES								
	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft)	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft)	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in)	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft)	Arr	ay 13	Arı	ay 14	Arı	ray 15	Ari	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in)	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft)	Arr	ay 13	Arı	ay 14	Arı	ray 15	Arı	ray 16
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft) Antenna Azimuth	Arr	ay 13  Elliptical	Arr	Elliptical	Ari	Elliptical	Ari	Elliptical
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft) Antenna Azimuth Comments								
Antenna Type Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft) Antenna Azimuth  Comments Feedline Shape (circle)								

	Arr	ay 17	Arr	ay 18	Arı	ay 19	Arı	ray 20
Antenna Type								
Antenna Size (ft)								
Radome Type								
Antenna Manufacturer								
Antenna Model								
Antenna Elevation								
Mount Location								
Horizontal Offset (in)								
Lateral Offset (ft)								
Antenna Azimuth								
Comments								
Feedline Shape (circle)	Round	Elliptical	Round	Elliptical	Round	Elliptical	Round	Elliptical
Feedline Diameter								
Feedline Face								
Number of Feedlines								
	Arr	ay 21	Arr	ay 22	Arı	ay 23	Arı	ray 24
Antenna Type	Arr	ay 21	Arr	ay 22	Arı	ay 23	Arı	ray 24
Antenna Size (ft)	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft)	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arr	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft)	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in)	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft)	Arr	ay 21	Arr	ay 22	Arı	ray 23	Arı	ray 24
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft) Antenna Azimuth	Arr	ay 21  Elliptical	Arr	Elliptical	Ari	Elliptical	Arr	Elliptical
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft) Antenna Azimuth  Comments								
Antenna Size (ft) Radome Type Antenna Manufacturer Antenna Model Antenna Elevation Mount Location Horizontal Offset (in) Lateral Offset (ft) Antenna Azimuth  Comments  Feedline Shape (circle)								

### **Self-Support Tower Verticality/Twist Measurement**

Wind Speed:	mph	Temperature:	deg F	
Transit Position #1 Distance From Tower (mark transit position		$\perp$ to Leg:	(leg az	zimuth)
Angle from Horz. to T	ower Top of Leg:		deg	(vert. Angle)
Angle Deviation (left r	neg/right pos) at Tow	er Top:	deg	
Note: For three sided tower, For four sided tower,		• .		
Transit Position #2 Distance From Tower (mark transit position	:ft on site drawing)	⊥ to Leg:	(leg a	zimuth)
Angle from Horz. to T	ower Top of Leg:		deg	(vert. Angle)
Angle Deviation (left r	neg/right pos) at Tow	er Top:	deg	
If the tower is twisted, For three sided to	then: wer, survey third leg,	ection, tower is twisted. same manner. fourth leg, same manne		
Transit Position #3 (m Distance From Tower (mark transit position	:ft	⊥ to Leg:	(leg a:	zimuth)
Angle from Horz. to T	ower Top of Leg:		deg	(vert. Angle)
Angle Deviation (left r	neg/right pos) at Tow	er Top:	deg	
Transit Position #4 (m Distance From Tower (mark transit position	:ft	⊥ to Leg:	(leg az	zimuth)
Angle from Horz. to T	ower Top of Leg:		deg	(vert. Angle)
Angle Deviation (left r	neg/right pos) at Tow	er Top:	deg	

#### **Guy Tower Verticality/Twist Measurement** Wind Speed: mph Temperature: deg F Transit Position #1 Distance From Tower: ⊥ to Leg: (leg azimuth) (mark transit position on site drawing) Angle from Horz. to Tower Top of Leg: deg (vertical angle) Top Guy 2nd Guy 3rd Guy 4th Guy 5th Guy Angle Deviation (left neg/right pos) at each elevation: Note: For three sided tower, survey two legs, 120 deg. apart. For four sided tower, survey second leg, 90 deg. from first. **Transit Position #2** Distance From Tower: ⊥ to Leg: (leg azimuth) (mark transit position on site drawing) Angle from Horz. to Tower Top of Leg: deg (vertical angle) Top Guy 2nd Guy 3rd Guy 4th Guy 5th Guy Angle Deviation (left neg/right pos) at each elevation: Note: If all tower tops surveyed are off same direction, tower is twisted. If the tower is twisted, then: For three sided tower, survey third leg, same manner. For four sided tower, survey third and fourth leg, same manner. Transit Position #3 (may not be required) Distance From Tower: ⊥ to Leg: (leg azimuth) (mark transit position on site drawing) Angle from Horz. to Tower Top of Leg: deg (vertical angle) Top Guy 2nd Guy 3rd Guy 4th Guy 5th Guy Angle Deviation (left neg/right pos) at each elevation: Transit Position #4 (may not be required) (leg azimuth) Distance From Tower: ⊥ to Leg:

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Top Guy

deg

2nd Guy

3rd Guy

4th Guy

5th Guy

(mark transit position on site drawing)

Angle from Horz. to Tower Top of Leg:

Angle Deviation (left neg/right pos) at each elevation:

(vertical angle)

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	Satisfactory	Needs Repair	Critical	Not Applicable	_
Tower Structure Condition  Damaged members:	<u> </u>	z	<u> </u>	z	Comments
Loose members:	-				
Missing members:	-				
Climbing facilities, platforms, catwalks:					
Loose and/or missing bolts and/or locking devices					
Visible cracks in welded connections:					
Weep holes (unobstructed):					
Tower Finish Paint and/or galvanizing condition:		ı	ı		
Rust and/or corrosion:					
Tower Lighting					
Conduit, junction boxes, and fasteners:					
Wiring condition:					
Light lenses:					
Bulb condition:					
Controllers-Flasher:					
Controllers-Photo Control:					
Controllers-Alarms:					
Tower Grounding Connections:					
	_				
Corrosion:					
Lightening protection:					
Antennas and Feedlines					
Antenna condition					
Mount and/or ice shield condition:					
Feed line condition:					
Hanger condition:	+				
Secured to structure:	+				
Coax properly grounded	+				

Guy Condition	Satisfactory	Needs Repair	Critical	Not Applicable	
Strand:	S	<u>z</u>		Z	
Turnbuckle or equivalent:					
Cable thimbles properly in place:					
Service sleeves properly in place:					
Cable clamps applied properly					
Figure eight properly applied:					
Signs of damaged or slipping strands					
Preformed wraps properly in place:					
Poured sockets:					
Shackles, bolts, pins, and cotter pins:					
		l	l		
Tower Foundations					
Ground Condition					,
Settlement, movement or earth cracks:					
Erosion:					
Site condition:					
Anchorage Condition					
Nuts and/or nut locking device:	1				
Grout condition:					
Anchorages and/or anchor rods:					
	<u> </u>				
Concrete Condition Cracking,spalling, or splitting:		1	1		
Chipped or broken concrete:					
Honeycombing:					
Low spots to collect moisture:					
Guy Anchor Foundations					
Settlement, movement or earth cracks:					
Backfill heaped over concrete for water shedding:					
Anchor rod condition below earth:					
Corrosion control measures:					
Anchor heads clear of earth:					
Guys are properly grounded:	$\vdash$				

# **GEOMETRY SKETCH**

NUMBER OF SECTIONS:	 7	/	
FEET PER SECTION:			
	7		
NUMBER OF SECTIONS:			
FEET PER SECTION:			
	7		
			,

# **GEOMETRY SKETCH**

	]	<u> </u>		
			NUMBER OF	
			SECTIONS:	
			FEET PER SECTION:	
			SECTION.	
		Ĺ		
<i></i>	<del>-X</del>			

#### Material Thickness Test Results

_/	$\overline{\ }$	

Tower Legs:

Tower L Leg	legs:		
Leg	Elev	OD/Dim	Thickness

Diagonals:

Face	Elev	OD/Dim	Thickness

#### Horizontals:

Face	Elev	OD/Dim	Thickness

Internal Bracing:

Face	Elev	OD/Dim	Thickness

### **Site Deficiency List**

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

### **Site Deficiency List**

9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	

Site Photograph Checklist		
☐ Site ID Marker	☐ Overall Tower	☐ Antenna Locations
☐ Site Compound (side 1)	☐ Tower Base	☐ Tower Lighting
☐ Site Compound (side 2)	☐ Ice Bridge	☐ Lightening Protection
☐ Site Compound (side 3)	☐ Coax Routing at Base	☐ Coax Routing on Tower
☐ Site Compound (side 4)	☐ Anchor Points	☐ Panoramic View (north)
☐ Site Gate (each)	☐ Generator/Tank	☐ Panoramic View (east)
☐ Looking Towards Access Rd	☐ Shelter (all 4 sides)	☐ Panoramic View (south)
☐ All Signage	☐ All Utility Demarks/Power Ent.	☐ Panoramic View (west)
☐ Site/Tower Deficiencies	☐ All Site Equipment	☐ Site View of Compound (down)

