

Global Tower Partners

CLIENT: Global Tower Partners

ADDRESS;

LEAD:

SITE (ID); Jennings/Kreilow, LA-5136

Andy Aakhus-Witt

, Jennings, LA 70546

DATE AT SITE: 2/17/2013

TOWER TYPE / HT: Guyed Tower / ~480 ft.

WEATHER:

Sunny, 65°F, 10-20 mph SSW Wind

SUPPORT: N/A





Jennings/Kreilow LA-5136

Guyed Tower Inspection Report

Date: 2/20/2013

Prepared For:



Prepared By:
Andy Aakhus-Witt
Field Engineer
Structural Components, LLC
SC Job # N/A

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LEAD: Andy Aakhus-Witt SUPPORT: N/A

Summary

The purpose of this inspection was to investigate the tower after a small aircraft struck the upper guy wires on Friday February 15th. Guy wires A7 and A8 appear to be damaged and have partially slipped through their preform grips, the mast is not properly aligned, many guy wires are not correctly tensioned, the soil surrounding the Aouter anchor shaft appears to have been disrupted, and the uppermost mounts and antennas appear damaged in various ways. The tower was not climbed. Based on my inspection from the ground, I believe the tower is currently structurally stable but the following is recommended:

-Replace the A outer anchor as it has undergone a large dynamic load and appears to have displaced slightly. This anchor should be designed to withstand the full capacity of the guy wires using standard soil parameters since no geotechnical information is available.

-Replace all guy wires at the 7th and 8th level. The two on side A show visible damage and side C shows some possible stretching or kinking.

-Completely plumb and tension tower.

-Inspect all guy attachments, members, bolts, etc. thoroughly for any signs of damage on the tower and replace/repair as required.

-Repair/replace antennas as required.

-Obtain full tower, foundation and soils information to complete a structural analysis of the tower.

-It is recommended that the site stay closed for the time being until a professional tower crew arrives to repair the damages.



Damage at guy wires A7 and A8. There is no visible damage above the grips but it is likely



Antennas at the top have been damaged. This is likely due to tower movement





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Guy wires on C side appear to be kinked and stretched





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TOWER BASE SKETCH



REQ'D INFO

- * complete tower geometry
- * all member sizes
- * face widths & panel heights
- * base plate & pin info
- * anchor bolts / bolt circle
- * grout details / condition

6" c-c bottom FW, 2" SR legs

1" pin

9" dia. x 1.5" thick plate

(3) 1.25" dia. anchor rods

14" x 1.25" thick triangle plate

1.5" gap

6' x 6' base at grade level, 2" ave exposed above grade



CLIENT: Global Tower Partners DATE AT SITE: 12/28/2011

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LEAD: Andy Aakhus-Witt SUPPORT: N/A

ANCHORS A, B, AND C INNER

ANCHOR LOCATIONS TAKEN WITH: LASER

ANCHOR DETAIL SKETCH

(start hole numbering from bottom up)



REQ'D INFO

- * dimensions of plate
- * thickness of plates
- * hole diam, c/c spacing
- * edge distances
- * anchor shaft details

1.25" SR shaft, 2.5" x 3/8" weld around

8.5" x 6" x 5/8" thick plate

(5) 3/4" holes at 2" c-c, 5/8" e-e distance

Anchor A	Radius	150'	Height 0'		. 90	Photo #	140
Anchor B	Radius	150'	Height +1'		. 210	Photo #	169
Anchor C	Radius	150'	Height	0' Az	. 330	Photo #	192
Guy#	Elevation	Hole Diameter	Edge Distance	Turnbuckle Size	Turnbuckle	Gap (A, B, C)	Preform (Color)
1	~75'	3/4"	5/8"	3/4" x 12	8	4.4	No color present

Guy#	Elevation	Hole Diameter	Edge Distance	Turnbuckle Size	Turnbuckle Gap (A, B, C)	Preform (Color)
1	~75'	3/4"	5/8"	3/4" x 12	8, 4, 4	No color present
2	~150'	3/4"	5/8"	3/4" x 12	9, 4, 9	No color present
3	~239'	3/4"	5/8"	3/4" x 12	4, 2, 8	No color present
4L	~245'	3/4"	5/8"	3/4" x 12	4, 6, 3.5	No color present
4R	~245'	3/4"	5/8"	3/4" x 12	4, 7, 6	No color present
	1 2 3 4L	1 -75' 2 ~150' 3 ~239' 4L ~245'	1 -75' 3/4" 2 -150' 3/4" 3 -239' 3/4" 4L -245' 3/4"	Guy # Elevation Diameter Edge Distance 1 ~75' 3/4" 5/8" 2 ~150' 3/4" 5/8" 3 ~239' 3/4" 5/8" 4L ~245' 3/4" 5/8"	Guy # Elevation Diameter Edge Distance Turnbuckle Size 1 ~75' 3/4" 5/8" 3/4" x 12 2 ~150' 3/4" 5/8" 3/4" x 12 3 ~239' 3/4" 5/8" 3/4" x 12 4L ~245' 3/4" 5/8" 3/4" x 12	Guy # Elevation Diameter Diameter Diameter Edge Distance Turnbuckle Size Turnbuckle Gap (A, B, C) 1 ~75' 3/4" 5/8" 3/4" x 12 8, 4, 4 2 ~150' 3/4" 5/8" 3/4" x 12 9, 4, 9 3 ~239' 3/4" 5/8" 3/4" x 12 4, 2, 8 4L ~245' 3/4" 5/8" 3/4" x 12 4, 6, 3.5

Guy#	Elevation	Guy Size	Guy Wire (Number of Strands)	Pin (Diameter)	Lug Hole (Min. Edge)	Grounding / Condition
1	~75'	7/16	7	5/8"	5/8"	None / Satisfactory
2	~150'	7/16	7	5/8"	5/8"	None / Satisfactory
3	~239'	7/16	7	5/8"	5/8"	None / Satisfactory
4L	~245'	7/16	7	5/8"	5/8"	None / Satisfactory
4R	~245'	7/16	7	5/8"	5/8"	None / Satisfactory



, Jennings, LA 70546

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LEAD: SUPPORT: N/A Andy Aakhus-Witt

WEATHER:

ANCHORS A, B, AND C Outer

ADDRESS:

ANCHOR LOCATIONS TAKEN WITH: LASER

ANCHOR DETAIL SKETCH

~425'

~470'

13/16"

13/16"

1.125"

1.125"

(start hole numbering from bottom up)



REQ'D INFO

- * dimensions of plate
- * thickness of plates
- * hole diam, c/c spacing

Blue

Blue

- * edge distances
- * anchor shaft details

(2) 1.5" SR shafts, 8" x 5/8" weld around

15" x 12" x 7/8" thick plate

5.5, 5, 7.5

4, 2, 4

Sunny, 65°F, 10-20 mph SSW Wind

(5) 13/16" holes at 3" c-c, 1.125" e-e distance

Anchor A	Radius	300'	Height 0'		z	90	Photo #	151
Anchor B	Radius	300'	Height +1'		Z	210	Photo #	185
Anchor C	Radius	300'	Height	+2' A	z.	330	Photo #	194
Guy#	Elevation	Hole Diameter	Edge Distance	Turnbuckle Size		Turnbuckle G	ар (A, B, C)	Preform (Color)
5	~319'	13/16"	1.125"	7/8" x 12		7.5, 8	3, 6	No color present
6	~379'	13/16"	1.125"	7/8" x 12		8, 9.5	5, 6	No color present
N/A	N/A	13/16"	1.125"	N/A		N/A	4	No color present

7/8" x 12

7/8" x 12

Guy#	Elevation	Guy Size	Guy Wire (Number of Strands)	Pin (Diameter)	Lug Hole (Min. Edge)	Grounding / Condition
5	~319'	7/16	7	3/4"	1.125"	None / Satisfactory
6	~379'	7/16	7	3/4"	1.125"	None / Satisfactory
N/A	N/A	N/A	N/A	N/A	1.125"	None / Satisfactory
7	~425'	1/2	7	3/4"	1.125"	None / A7 damaged
8	~470'	1/2	7	3/4"	1.125"	None / A8 damaged



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LEAD:

Andy Aakhus-Witt

100

SUPPORT:

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TOWER TYPE / HT:

N/A

Issue 1:

No safety climb on tower

Recommendation:

Install 3/8" safety climb or a competent climber

Photo:



Issue 2:

Open and empty shelter

with trash

Recommendation:

Remove trash and lock shelter doors

Photo: 82



Issue 3:

Wasp nests in and outside shelters

Recommendation:

Hire insect control services

Photo:

85



Issue 4:

Guy wires are not grounded (all)

Recommendation:

24

Install grounds for all guy

wires



Issue 5:

Vegetation surrounding guy anchors and guy

wires (all)

Recommendation:

Remove vegetation from guy anchors and wires

54 Photo:



Issue:

Recommendation:

Photo: