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TOWER INSPECTION REPORT

PREPARED FOR MR.

CUSTOMER

1,563' GUYED TOWER

NEAR CITY, STATE

JANUARY 14, 2008

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STATEMENT OF PURPOSE

This Tower Inspection Report is intended to document the findings of our Visual Maintenance Inspection. The purpose is to determine the general overall physical condition of the tower and associated equipment from maintenance prospective. This type of report is commonly used for insurance purposes. This report is intended for the use of the customer listed on the cover page. Any information reported concerning other equipment, not owned by the customer listed on the cover page, is for informational use only, as it relates to the effect that the equipment might have on the structure. We assume no liability for equipment owned by third parties who have not contracted our Inspection Services. We disclaim any liability arising from original design, material, fabrication and erection deficiencies not visible or detectable by a normal visual inspection. In addition, under no circumstances shall Coast to Coast Tower Service, Inc. have any obligations or responsibilities whatsoever for or on account of consequential or incidental damages sustained by any person, firm or organization as a result of any information or conclusions contained in this report, and the maximum liability of Coast to Coast Tower Service, Inc., if any, pursuant to this Report shall be limited to the total funds actually received by Coast to Coast Tower Service, Inc. for preparation of this report.

SUMMARY

CUSTOMER: LOCATION:
INSPECTOR: Ken French DATE OF INSPECTION: January 14, 2008

COMMENT:

Our recommendations are based on four levels of priority.

1). "Keep the tower standing". These are any items that might affect the structural integrity of the tower.

2). "Keep the station on the air". These are any items that might affect your signal or ability to broadcast.

3). "Avoid liability risk". These are any items that might cause hazards to climbers or personnel at or around the structure.

4). "Keep the cost of ownership down". Through careful use of maintenance and preventive maintenance we can help you get the "most for the least" from your tower investment.

RECOMMENDATIONS AND OBSERVATIONS

STRUCTURAL INTEGRITY ITEMS:

1.1 The holes for the leg splice bolts appear to be too large for the bolts that were utilized for the leg flange connection. The erection drawings specify a ¾" diameter bolt and this is what is currently installed at each leg flange, however, the bolt holes were measured at several locations throughout the shaft of the tower and the bolt hole diameters measured at 15/16". The required bolt hole diameter for a ¾" bolt is 13/16". It is our opinion that all of the leg flange bolts should be replaced with 7/8" diameter bolts due to the oversized holes in the leg flanges. The photo documentation of this report should be reviewed by an independent structural engineer that specializes in broadcast towers exceeding 1,000' in height for recommendations and comments.

1.2 There are hundreds of bowed, bent and deformed diagonal members noted throughout the structure. It is our opinion that the tower has been racked by the extreme force and movement resulting from the gin pole falling from the tower and sliding down one of the upper guy wires during the erection process (see TOWER SECTION DETAIL pages for locations). The bent and deformed diagonal members should be addressed as specified by an independent structural engineer that specializes in broadcast towers exceeding 1,000' in height. It is our opinion that the structural integrity of the tower has been compromised and immediate corrective action is necessary.

1.3 The guy wire tensions and tower vertical alignment are not within the allowable tolerance. Once the other structural deficiencies have been addressed as specified by a structural engineer, the guy wire tensions and tower vertical alignment should be adjusted to meet the original design specifications. We do not recommend adjusting guy tensions and vertical alignment until all other structural issues have been resolved.

1.4 The placement of the sockets on the hairpins, on several of the guy wires, appears to be wrong. Typically once the guy wires have been adjusted to the proper initial tension and the vertical alignment is correct, the socket should end up approximately 1/3 of the way down the hairpin. This would leave approximately 2/3 of the length of the hairpin for future adjustment of the guy tensions and vertical alignment. There are several sockets that will have little or possibly no adjustment once the proper alignment and tensions have been achieved. This will likely cause the guy wire dead-ends to have to be cut and re-poured prematurely to allow for future adjustment. Additionally, several of the sockets are not set properly on the hairpins causing and unbalanced load on the hairpins. This can be corrected when the guy wire tensions are adjusted.

1.5 There were several loose structural bolts noted throughout the structure. All of the loose bolts should be tightened to meet the design specifications. Additionally, We strongly recommend spot checking the torque on several other bolts to insure proper torque values have been met.

1.6 There were several structural connection bolts that are too short, some having no threads showing above the nuts. Any bolts that are too short should be replaced with the proper length bolts (see TOWER SECTION DETAIL pages for locations).

1.7 There were several bent gusset plates noted on the structure. The bent gusset plates should be addressed as specified by an independent structural engineer that specializes in broadcast towers exceeding 1,000’ in height for recommendations and comments. (see TOWER SECTION DETAIL pages for locations).

1.8 The gusset plates in Section #21, Bay #2 on A leg are bent. There appears to be a crack in one of the welds. The bent gusset plate should be addressed as specified by an independent structural engineer that specializes in broadcast towers exceeding 1,000’ in height for recommendations and comments.

1.9 When the gin pole was dropped off of the structure it landed on one of the #7 guy wires and slid most of the way to the ground on the guy wire. The load and jump lines were wrapped around the guy wire and also dragged down the guy. We strongly suggest riding down this guy wire for further inspection to insure there are no broken or damaged strands. Additionally, an independent structural engineer should consult with the guy wire manufacturer to determine if this accident could have had an affect on the guy wire that would not be noticed during a visual inspection. If the guy wire has no visible damage and the engineer approves the continued use of the existing guy wire, the wire should be rust treated with a longer lasting coating than cold galvanizing. In the coastal region the tower is located in we would recommend treating the wire with strandcoat.

SYSTEM INTEGRITY ITEMS:

2.1 There is a gas leak in the top FM transmission line/antenna system. The system was reported as gas tight prior to the gin pole being dropped and the leak is likely the result of the gin pole being dropped off of the tower. The leak should be located and repaired to prevent moisture from entering the system possibly causing an off air emergency.

2.2 A combination of loose angle stiff-arms, loose threaded rod assemblies and loose hose clamps being used as mounts to support and prevent lateral movement in the main feed (3-1/8" rigid transmission line) on the lambda sections. The mounting system is not adequate to support the line and prevent movement in its current state and should be repaired or replaced to prevent damage to the transmission line.

2.3 The element base containment boxes on Bays #2, #3, and #5 for the top mounted FM antenna have been damaged. This damage is likely a result of the gin pole being dropped off of the tower. The antenna manufacturer should be consulted to determine if repair or replacement is necessary.

2.4 The radiating elements on two of the FM antenna bays are bent. This damage is likely a result of the gin pole being dropped off of the tower. The antenna manufacturer should be consulted to determine if repair or replacement of the antenna bays is necessary.

2.5 One of the fixed hangers supporting the rigid transmission line feeding the top-mounted FM antenna is broken. This damage is likely a result of the gin pole being dropped off of the tower. The top fixed hanger allows the transmission line to expand and contract without causing damage to the top elbow complex and antenna power input. The fixed hanger should be replaced to prevent damage to the top elbow complex and antenna input, causing a possible off air emergency.

2.6 The springs tensions for the two runs of 3-1/8" rigid transmission line are not adjusted to the proper values. The spring tensions should be adjusted to the manufacturer's specifications so the transmission line is properly supported.

2.7 All of the flexible type transmission lines are loose throughout the tower. The transmission lines are only secured is spotted locations using electrical tape, tie wire and rotten rope. These lines need to be supported according to the manufacturer's specifications to prevent damage to themselves, the structure or other systems mounted to the structure.

LIABILITY AND SAFETY ITEMS:

3.1 There is no safety climb system installed on the climbing ladder. A safety climb system should have been included in the installation to comply with current OHSA regulations. We strongly suggest installing a personnel safety climb system on the climbing ladder.

3.2 There is a load line rigged through the shaft of the tower. We do not recommend leaving a tower rigged, especially on the inside of the structure, for a couple of reasons. First, if contractors are allowed to utilize rigging that is owned by the station it exposes the owner to joint responsibility and liability. Second, with the load line loose on the inside of the structure there is a high probability of the line causing damage to itself, transmission lines and possibly the structure itself. Last, the steel load line will draw an arch from the RF radiation in the aperture of the side mounted FM antenna. Eventually the line can be burned in half, dropping the load line through the inside of the tower, resulting in damage to the structure and systems mounted to the structure.

MAINTENANCE ITEMS:

4.1 There is light to heavy surface rust on some of the cotter pins at the A-1, B-1, C-1, and C-2 anchor locations. The rusted cotter keys should be replaced with new hot dip galvanized or stainless steel cotter keys.

4.2 The guy wire grounding cable is not attached to the grounding rod at Anchor B-1. This cable should be attached to help protect the anchor foundation from damage caused by lightning strikes.

4.3 The grounding cables secured to the guy wires at Anchors A-1 and C-2 are broken. These cables should be replaced to help protect the anchor foundation from damaged caused by lightning strikes.

4.4 The jam nuts for all three hairpins on the C-1 anchor are at the end of the hairpins. The jam nuts should be tightened to lock the socket into place.

4.5 There is one missing washer and cotter pin for the A-3-9 guy wire. These should be installed As specified by the manufacturer.

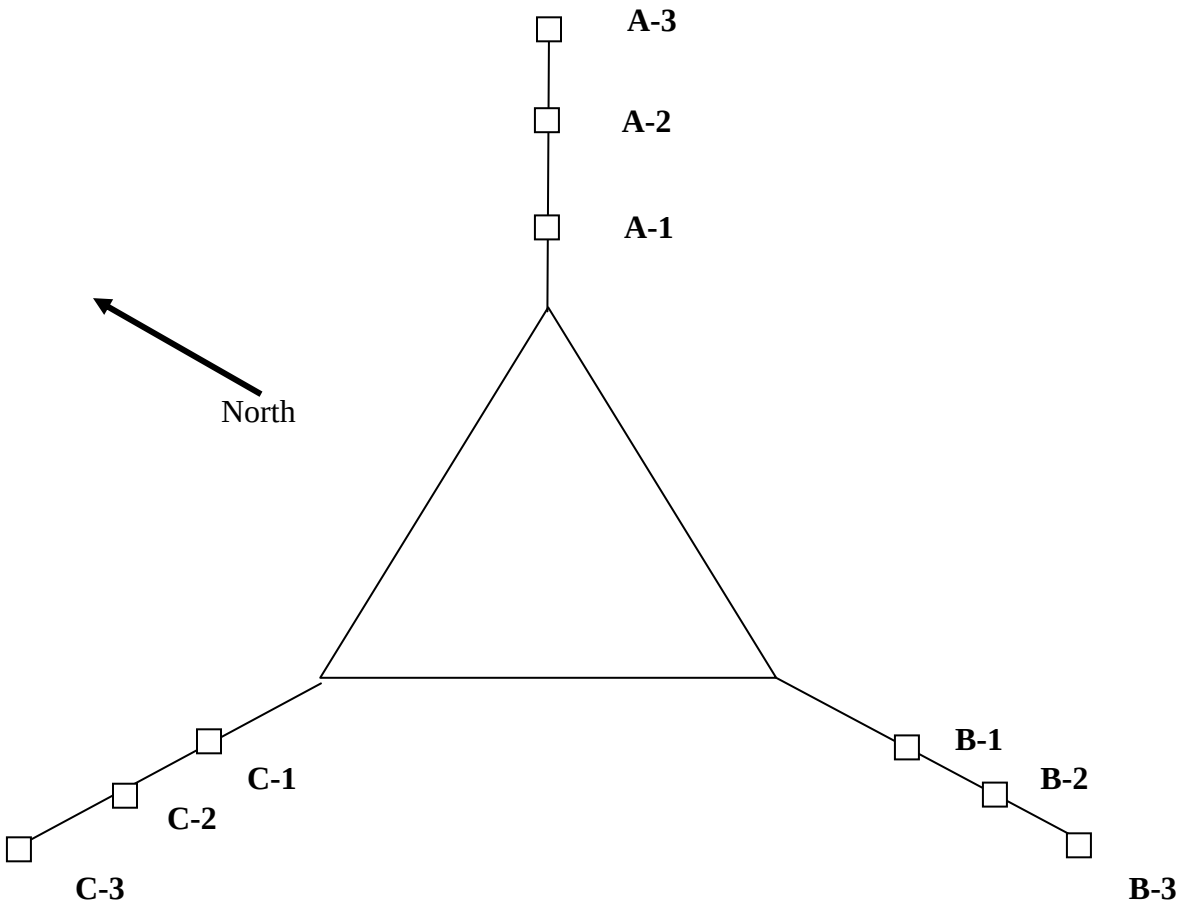
4.6 The electrical conduit for the lighting system is poorly installed and missing hardware to include expansion joints. The expansion joints are necessary as the conduit and tower expand and contract at different rates. The conduit is currently bending, bowing and will soon start to break either the conduit or junction boxes. We highly recommend installing expansion joints and replacing any missing hardware used to secure the conduit to the structure. When the conduit or junction boxes fail, moisture will be allowed into the conduit and junction boxes, causing light systems failures.

4.7 There are several S. O. type electrical cords from the junction boxes to the strobe lights that are loose or improperly secured to the structure. These cords should be properly secured to the structure to prevent damage to the cords causing possible light failures.

4.8 There is a single ground wire loosely secured to the base of the tower with a hose clamp. The ground should be properly secured to the structure to insure continuity between the tower and the ground rod.

PLOT PLAN

1. The tower base and anchor layout are shown relative to North, looking down.
2. Anchor "A" is the first anchor clockwise from North, unless otherwise noted.
3. The transit instrument setup locations for the tower vertical alignment are depicted here to match the readings noted on the Tower Vertical Alignment page.



TOWER VERTICAL ALIGNMENT

The tower vertical alignment is sighted from two set-up locations as shown on the Plot Plan page of this report. Two readings are taken at each transit location. The first reading is taken with the scope in the normal position and the second reading is taken with scope inverted. The "mean" of the readings are noted here.

Guy level Top to Bottom	Transit #1 Tower Lays			Transit #2 Tower Lays		
	Left	0	Right	Left	0	Right
Tapered	5”			3”		
9	5”				0	
8	6”					5”
7	5”					5”
6	2.5”					5”
5	1.5”					3.5”
4		0				2.5”
3		0				1.5”
2			0.5”			0.5”
1			1.5”			0.5”

The following tolerances for alignment are recommended.
PLUMB - One part in 3000, (Height in feet x 12" / 3000) = 5.84" for 1,460’.
LINEARITY - The absolute difference between readings at successive guy points shall not exceed one part in 1200, (Distance between guy attachment points in inches / 1200) =1.62" for 162'.

1. Is the tower alignment within tolerance for PLUMB? Yes.

2. Is the tower alignment within tolerance for LINEARITY? No

GUY WIRE TENSIONS

The wind speed at the time of measurement was approximately (10) miles per hour on the ground. Winds must be calm or slight for final tension measurements. Measurements were taken at anchor "A".

Guy level Top to Bottom	Guy size	Degrees "F" Temperature	Present Tension	Temperature Compensated Required Tension	Percentage Variation
9	1-5/8"	44	33,284	34,521	- 3.58%
8	1-1/2"	44	31,400	29,603	+ 6.07%
7	1-1/4"	44	20,096	20,545	- 2.19%
6	1-3/8"	42	28,260	25,059	+12.77%
5	1-1/4"	42	19,782	20,891	- 5.31%
4	1-1/8"	40	16,642	17,089	- 2.62%
3	1-1/4"	36	19,154	21,542	- 11.09%
2	1"	36	12,874	13,876	- 7.22%
1	1"	34	16,328	13,966	+ 16.91%

Maintaining the guy tensions in accordance with the manufacturer's specifications is required to maintain tower stability. Plus or minus 5% is generally the accepted standard.

Is guy tensioning needed? Yes.

GUY WIRES, ANCHORS AND GROUNDING

See the Plot Plan page for anchor designation

Details:

Anchor # Typical	
Anchor # A-1	Safety cotter pins on the anchor pins are rusty. The grounding cable is broken between guy wires # A-1-2 and #A-1-3.
Anchor # A-2	The sockets are not equally balanced on the hairpins at levels #A-2-4, #A-2-5, & #A-2-6.
Anchor # A-3	The sockets are not equally balanced on the hairpins at levels #7 & #9. One washer and safety cotter pin is missing on the #9 guy wire.
Anchor # B-1	The guy wire grounding cable is not attached to the grounding rod. The sockets are not equally balanced on the hairpins at all levels. There is light to medium surface rust on the cotter pins.
Anchor # B-2	The sockets are not equally balanced on the hairpins at all levels. There is light to medium surface rust on the cotter pins.
Anchor # B-3	The sockets are not equally balanced on the hairpins at all levels.
Anchor # C-1	The jam nuts on the C-1-1, C-1-2, and C-1-3 hairpins are not secured. There is medium surface rust on one of the cotter pins. The sockets are not equally balanced on the hairpins at all levels.
Anchor # C-2	There is medium surface rust on one cotter pin. The sockets are not equally balanced on the hairpins at all levels. The grounding cable is broken between guy wires #C-2-1 and #C-2-2.
Anchor # C-3	Spacing between the hairpin rods and the guy wires are slightly unequally balanced on all guy wire levels.

TOWER SECTION DETAIL

This section of the report details any problems with the structural condition, transmission lines, paint, lighting/conduit systems, ladder or safety climb equipment, rusting or side mounted antenna problems. The format is "section by section" numbering from the ground up. The base section is #l.

List Section #	Details
Section Typical	The grounding cable is improperly attached to the tower. The holes for the leg splice connections throughout the structure appear to be oversized. There are hundreds of loose and improperly sized bolts, some with missing lock washers, throughout the structure. All of the flexible type transmission lines are poorly installed and loose. The electrical conduit for the tower lighting system is poorly installed, missing parts and attachment hardware. The vertical spring hangers for both runs of 3-1/8" rigid transmission line are not properly adjusted. There is not safety climb cable system on the climbing ladder. There is a steel load line rigged through the shaft of the tower.
Section #2	There is (2) deformed diagonal member in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) diagonal members in Bay #3 are deformed.
Section #3	There is (1) deformed diagonal member in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Y face. There is (1) deformed diagonal member in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #2 on Z face. There is (1) deformed diagonal member in Bay #2 on X face. There is (1) deformed diagonal member in Bay #3 on X face.
Section #4	All (6) diagonal members in Bay #1 are deformed. There is (1) deformed diagonal member in Bay #2 on Y face. The gusset plate securing the horizontal member in Bay #2 on Y face at A leg is bent. All (6) diagonal members in Bay #2 are deformed. All (6) diagonal members in Bay #3 are deformed.
Section #5	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Y face. There is (1) deformed diagonal member in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #2 on Z face. There is (1) deformed diagonal member in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.

Section #6	There is (1) deformed diagonal member in Bay #1 on X face. All (4) diagonal members in Bay #1 on Y and Z faces are deformed. There are (2) deformed diagonal members in Bay #2 on X face. All (6) diagonal members in Bay #3 are deformed. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #7	There is (1) deformed diagonal member in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #8	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on Y face. There is (1) deformed diagonal member in Bay #3 on Z face.
Section #9	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on X face. There is (1) deformed diagonal member in Bay #2 on Z face.
Section #10	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There is (1) deformed diagonal member on Bay #2 on Y face. All (6) diagonal members in Bay #3 are deformed.
Section #11	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Y face. There is (1) deformed diagonal member in Bay #2 on Z face. All (6) diagonal members in Bay #3 are deformed.
Section #12	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There is (1) deformed diagonal member in Bay #1 on Z face. All (6) diagonal members in Bay #2 are deformed. All (6) diagonal members in Bay #3 are deformed.
Section #13	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on X face. All (6) diagonal members in Bay #3 are deformed. The ½" flexible type transmission line is supported with rotten rope.
Section #14	All (6) diagonal members in Bay #1 are deformed. All (6) diagonal members in Bay #3 are deformed.

Section #15	There is (1) deformed diagonal member in Bay #1 on X face. There are (4) deformed diagonal members in Bay #1 on Y and Z faces. There is (1) deformed diagonal member in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #16	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.
Section #17	There is (1) strobe light that is not functioning at this level. There are (2) deformed diagonal members in Bay #1 on Y face. All (6) diagonal members in Bay #2 are deformed. All (6) diagonal members in Bay #3 are deformed.
Section #18	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Z face. All (6) diagonal members in Bay #3 are deformed.
Section #19	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Z face. There are (2) deformed diagonal members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face.
Section #20	There are (2) deformed diagonal members in Bay #1 on X face. The splice for the climbing ladder is bent. There are (2) deformed diagonal members in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There is (1) deformed diagonal member in Bay #3 on Z face.
Section #21	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. The gusset plates in Bay #2 on A leg are bent. There may be a crack in one of the welds. All (6) diagonal members in Bay #2 are deformed. All (6) diagonal members in Bay #3 are deformed.
Section #22	There is (1) deformed diagonal member in Bay #1 on X face. There are (4) deformed diagonal members in Bay #1 on Y and Z faces. There is (1) deformed diagonal member in Bay #2 on Y face. All (6) diagonal members in Bay #3 are deformed.

Section #23	There is (1) deformed diagonal member in Bay #1 on the X face. There are (2) deformed diagonal members in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #2 on X face. There is (1) deformed diagonal member in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Z face. There is (1) deformed diagonal member in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on Y face. There is (1) deformed diagonal member in Bay #3 on Z face. There is (1) bent gusset plate in Bay #3 on Z face at B leg.
Section #24	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There is (1) deformed diagonal member in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #2 on X face. There are (4) deformed diagonal members in Bay #2 on Y and Z faces. All (6) diagonal members in Bay #3 are deformed. The climbing ladder is bowed.
Section #25	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on X face. The climbing ladder is bowed.
Section #26	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face.
Section #27	All (6) diagonal members in Bay #1 are deformed. The climbing ladder is bowed. There are (4) deformed diagonal members in Bay #2 on X and Y faces. All (6) of the diagonal members in Bay #3 are deformed.
Section #28	All (6) of the diagonal members in Bay #1 are deformed. There is (1) deformed diagonal member in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Z face. There are (2) deformed diagonal members in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #29	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #2 on X face. There are (2) diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.
Section #30	All (6) of the diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.

Section #31	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Y face. There is (1) slightly bent gusset plate in Bay #1 on X face at the C leg. There is (1) deformed diagonal member in Bay #1 on Z face. All (6) diagonal members in bay #2 are deformed. All (6) of the diagonal members in Bay #3 are deformed.
Section #32	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Y face. There are (2) deformed diagonal members in bay #1 on Z face. All (6) of the diagonal members in Bay #2 are deformed. There is (1) deformed diagonal member in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #33	There is (1) deformed diagonal member in Bay #1 on the X face. There is (1) deformed diagonal member in Bay #1 on Y face. There is (1) deformed diagonal member in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on Z face. There is (1) deformed diagonal member in Bay #3 on X face. There is (1) deformed diagonal member in Bay #3 on Y face.
Section #34	There are (2) deformed diagonal members in Bay #1 on Y face. There is (1) deformed diagonal member in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on X face. There is (1) deformed diagonal member in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #35	All (18) diagonal members in this section are deformed.
Section #36	There are (2) deformed diagonal members in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. There is (1) deformed diagonal member in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.
Section #37	All (18) diagonal members in this section are deformed.
Section #38	All (6) diagonal members in bay #1 are deformed. There are (2) deformed diagonal members in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) diagonal members in Bay #3 are deformed.

Section #39	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. All (12) of the diagonal members in Bays #2 and #3 are deformed.
Section #40	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Z face. All (12) of the diagonal members in Bays #2 and #3 are deformed.
Section #41	There are (2) deformed diagonal members in Bay #1 on X face. There ate (2) deformed diagonal members in Bay #1 on Y face. All (6) diagonal members in Bay #2 are deformed. There are (2) deformed diagonal members in Bay #3 on Z face. All (6) diagonal members in Bay #3 are deformed.
Section #42	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) deformed diagonal members in Bay #2 on X face. All (6) of the diagonal members in bay #3 are deformed.
Section #43	All (12) of the diagonal members in Bays #1 and #2 are deformed. There are (2) diagonal deformed members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There is (1) deformed diagonal member in Bay #3 on Z face.
Section #44	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. All of the diagonal members in bays #2 and #3 are deformed.
Section #45	All of the diagonal members in Bay #1 are deformed. There is (1) deformed diagonal member in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Y face. There is (1) deformed diagonal member in Bay #2 on Z face. All of the diagonal members in Bay #3 are deformed.
Section #46	All (18) of the diagonal members in this section are deformed.
Section #47	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #2 on Y face. There is (1) deformed diagonal member in Bay #2 on X face. There are (2) deformed diagonal members in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. All of the diagonal members in Bay #3 are deformed.
Section #48	There are (2) deformed diagonal members in Bay #1 on X face. There is (1) deformed diagonal member in Bay #1 on Y face. There are (2) deformed diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.

Section #49	There is (1) deformed diagonal member in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Z face. All of the diagonal members in Bay #2 are deformed. There are (2) deformed diagonal members in Bay #3 on X face (installed incorrectly). There are (2) deformed diagonal members in Bay #3 on Y face. There is (1) deformed diagonal member in Bay #3 on Z face.
Section #50	There is (1) deformed diagonal member in bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Y face. There is (1) bent gusset plate in Bay #1 on Z face at the A leg. There are (2) deformed diagonal members in Bay #1 on Z face. There is (1) bent gusset plate in Bay #2 on Z face at the A leg. All (6) diagonal members in Bay #3 are deformed.
Section #51	All (6) of the diagonal members in Bay #1 are deformed. There is (1) deformed diagonal member in Bay #2 on Z face. There is (1) deformed diagonal member in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. There are (2) deformed diagonal members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There is (1) deformed diagonal member in Bay #3 on Z face.
Section #52	All (18) diagonal members in this section are deformed.
Section #53	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.
Section #54	All (18) of the diagonal members in this section are deformed.
Section #55	All (18) of the diagonal members in this section are deformed.
Section #56	All (18) of the diagonal members in this section are deformed.
Section #57	All (18) of the diagonal members in this section are deformed.
Section #58	All (18) of the diagonal members in this section are deformed.
Section #59	There are (2) deformed diagonal members in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in bay #3 are deformed.
Section #60	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) of the diagonal members in Bay #3 are deformed.
Section #61	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Y face.

Section #62	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face. There is a 20' section of 4" flexible type transmission line that is not properly secured.
Section #63	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #64	There are (2) deformed diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face. The S.O. type electrical cord for the strobe light fixtures is secured to the tower with electrical tape.
Section #65	All (6) diagonal members in Bay #1 are deformed. All (6) diagonal members in Bay #2 are deformed. There are (2) deformed diagonal members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #66	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #1 on Z face. There are (2) deformed diagonal members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #67	There are (2) deformed diagonal members in Bay #3 on X face. There are (2) deformed diagonal members in Bay #3 on Y face.
Section #68	There are (2) deformed diagonal members in Bay #1 on X face. There are (2) deformed diagonal members in Bay #3 on Z face.
Section #69	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #2 on Y face. There are (2) deformed diagonal members in Bay #2 on Z face. All (6) diagonal members in Bay #3 are deformed.
Section #70	All (6) diagonal members in Bay #1 are deformed. There are (2) deformed diagonal members in Bay #3 on Y face. The top fixed hanger for one of the 3-1/8" rigid transmission lines is broken.
Section #71	There are (2) deformed diagonal members in Bay #2 on Y face. There are (4) deformed diagonal members in Bay #3 on Y & Z faces.

Section #72	The (4) diagonal members in Bay #1 on X & Y faces are wavy with a 1/2" gap at their intersection. The (2) diagonal members in Bay #1 on Z face are bowed with a 1" gap at their intersection. The (4) diagonal members in Bay #3 on X & Y faces appear to be straight, but have a 1" gap at their intersection.
Section #73	The (2) diagonal members in Bay #1 on X face are bowed and wavy with a 3/4" gap at their intersection. The (2) diagonal members in Bay #1 on Z face are bowed and wavy with a 1" gap at their intersection. The inside diagonal member in Bay #2 on Z face is wavy. The outside diagonal member in Bay #3 on Y face is bowed and bent and the inside diagonal member is wavy with a 1" gap at their intersection. Rigging (a block and chokers) was left at the top of the tower.

TOP MOUNTED FM ANTENNA

1. List and describe the top mounted antenna on the tower.

10-Bay FM antenna on 100’ of 2’ face welded tower sections.

2. Detail any physical damage, rusting or misalignment.

There is a gas leak in the system. A combination of angle stiff-arms and threaded rod assemblies are used as stand-off mounts to support the main feed (3-1/8” rigid coax) for the top FM antenna. Some of the threaded rods are bent and hose clamps are loose or have been stretched. This stand-off mounting system is not adequate to support the line and prevent movement. Element base containment boxes on Bays #2, #3, and #5 are bent and damaged on the FM antenna. The radiating element on Bay #9 of the FM antenna is bent and damaged.

3. Describe the condition of the paint, radomes or slot covers.

Not applicable.

4. Were the rigid transmission line top fixed hangers checked and secure?

One of the fixed hangers supporting the rigid transmission line is broken.

5. Describe the lightning rod, cage and or lightning elimination system.

The lightning deterrent system appears to be home-made.

PHOTOGRAPHS

Photos show typical deformed diagonal members.

PHOTOGRAPHS

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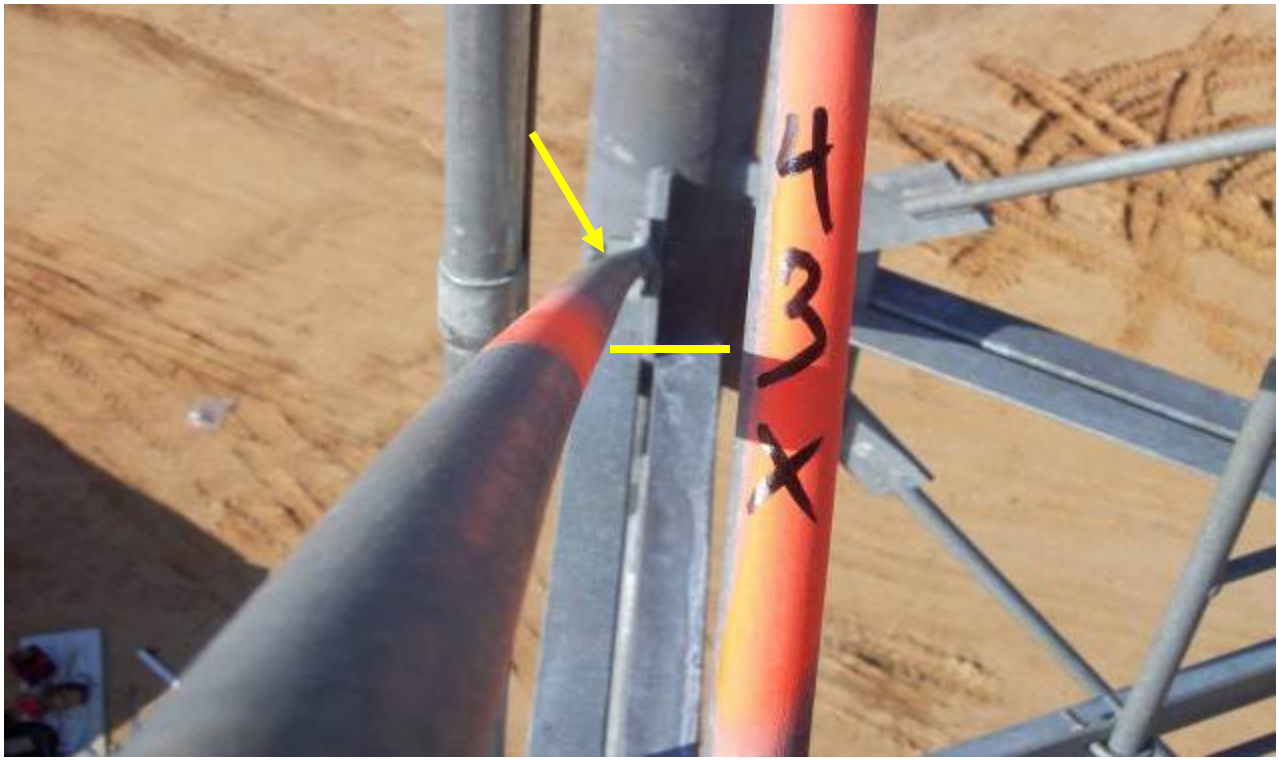
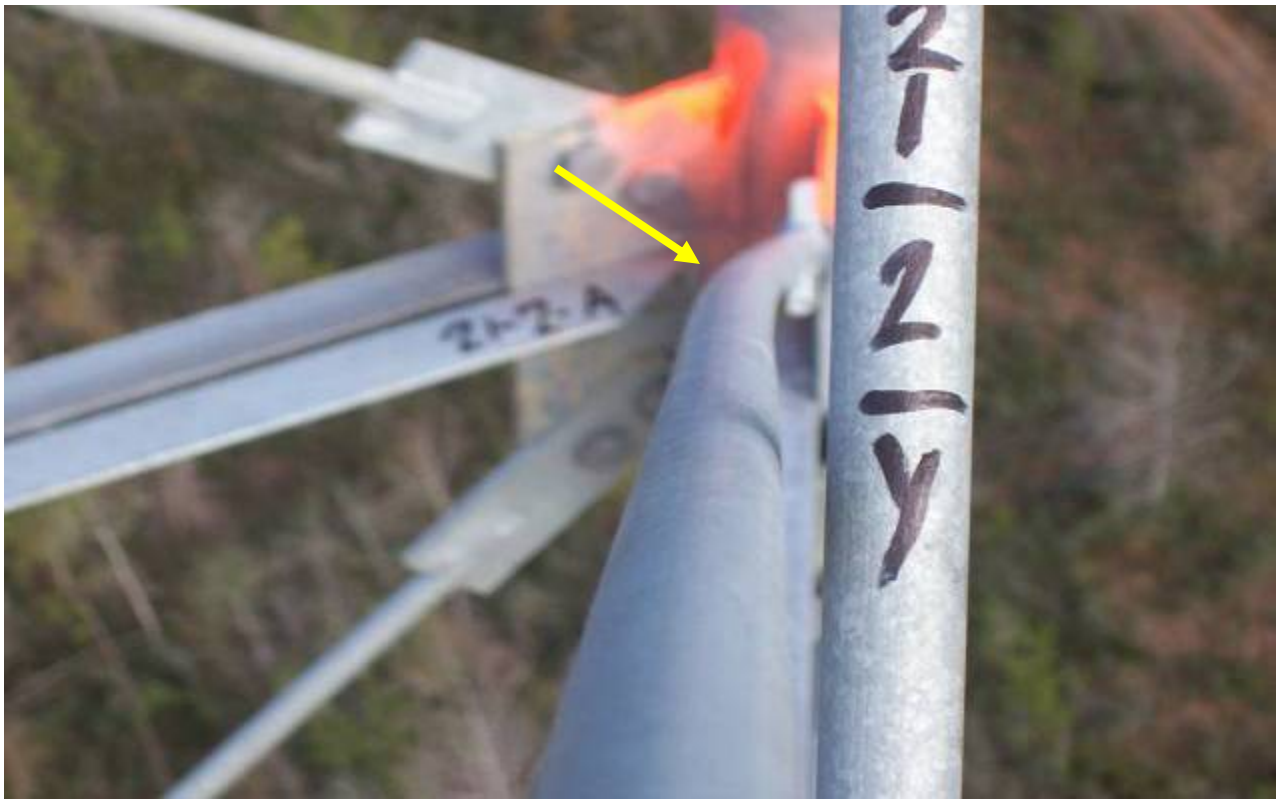


PHOTOGRAPHS

Photos show typical deformed diagonal members.



PHOTOGRAPHS

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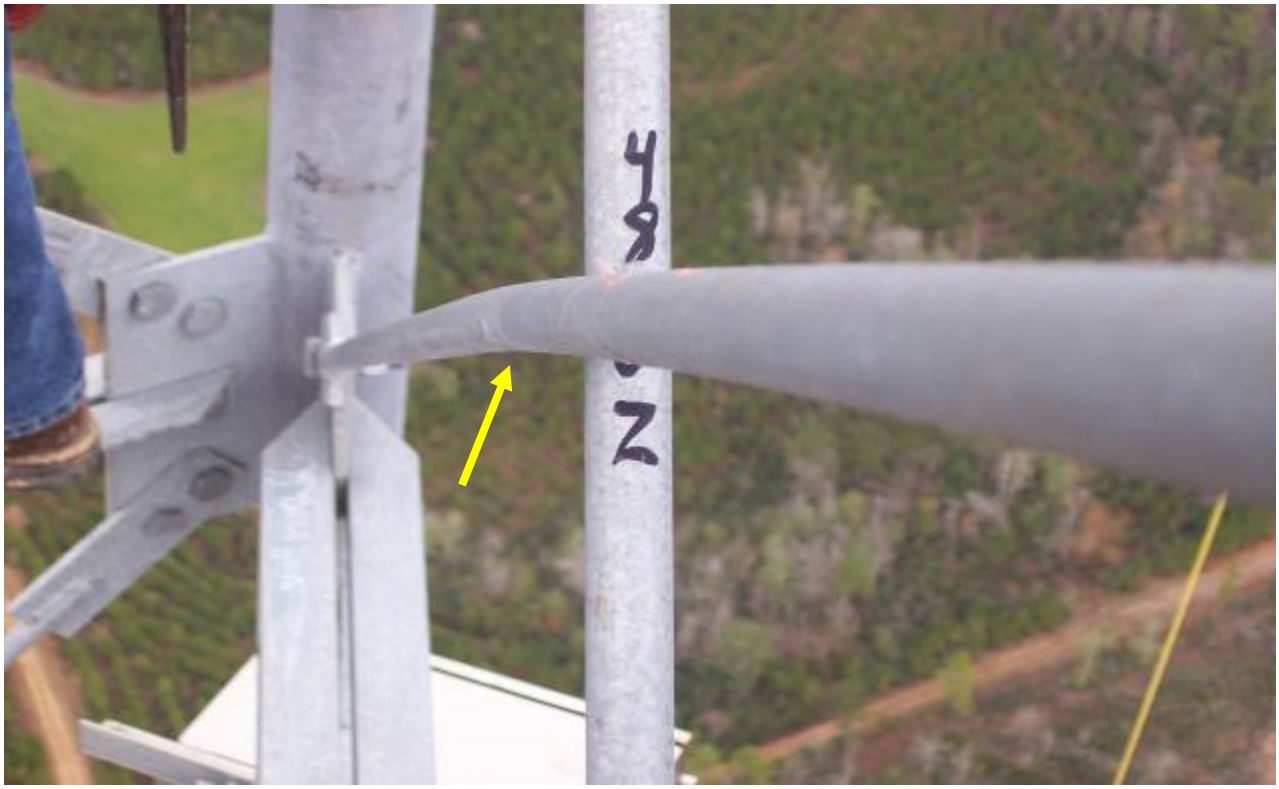

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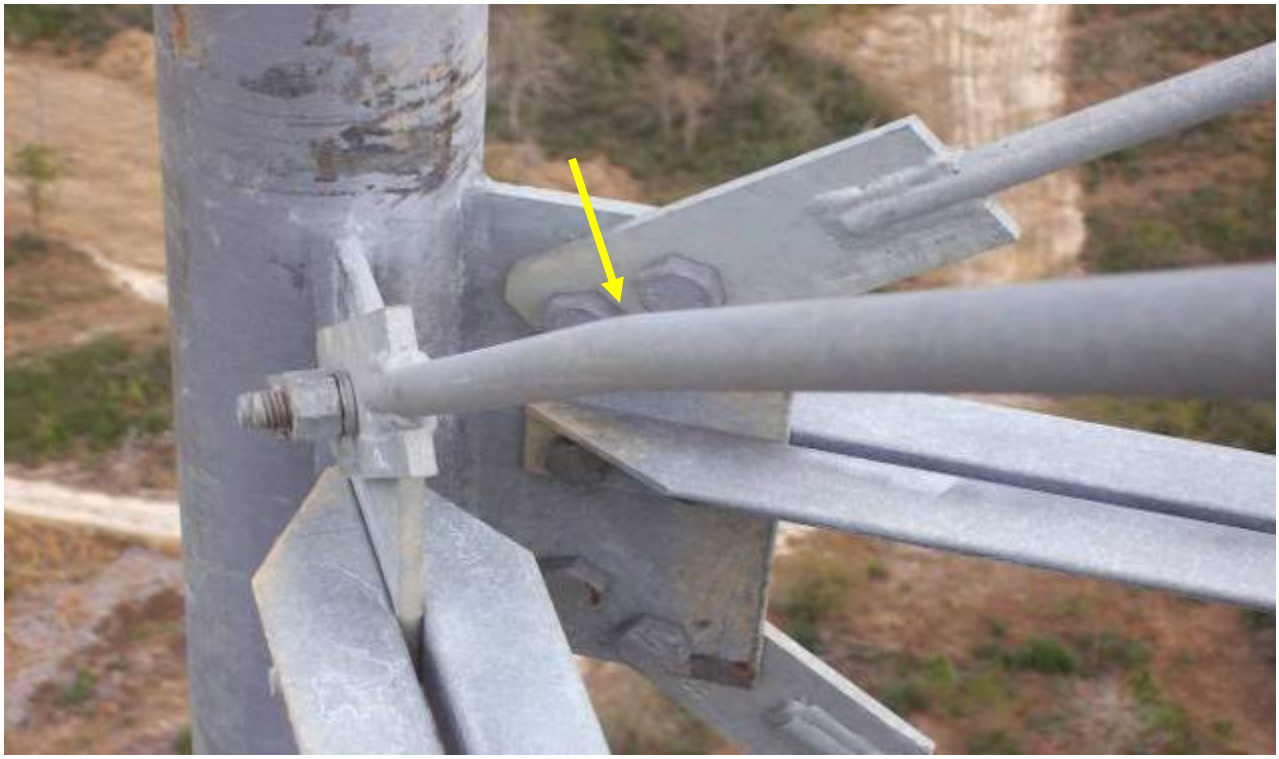

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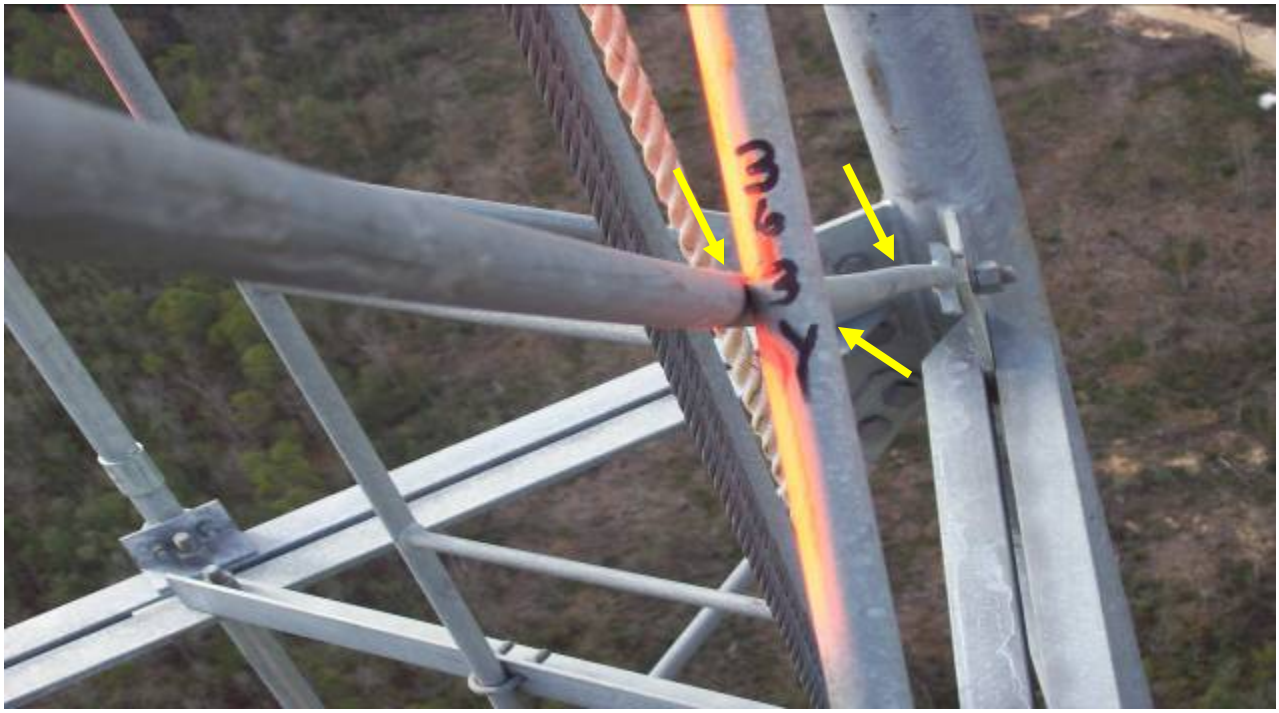

PHOTOGRAPHS

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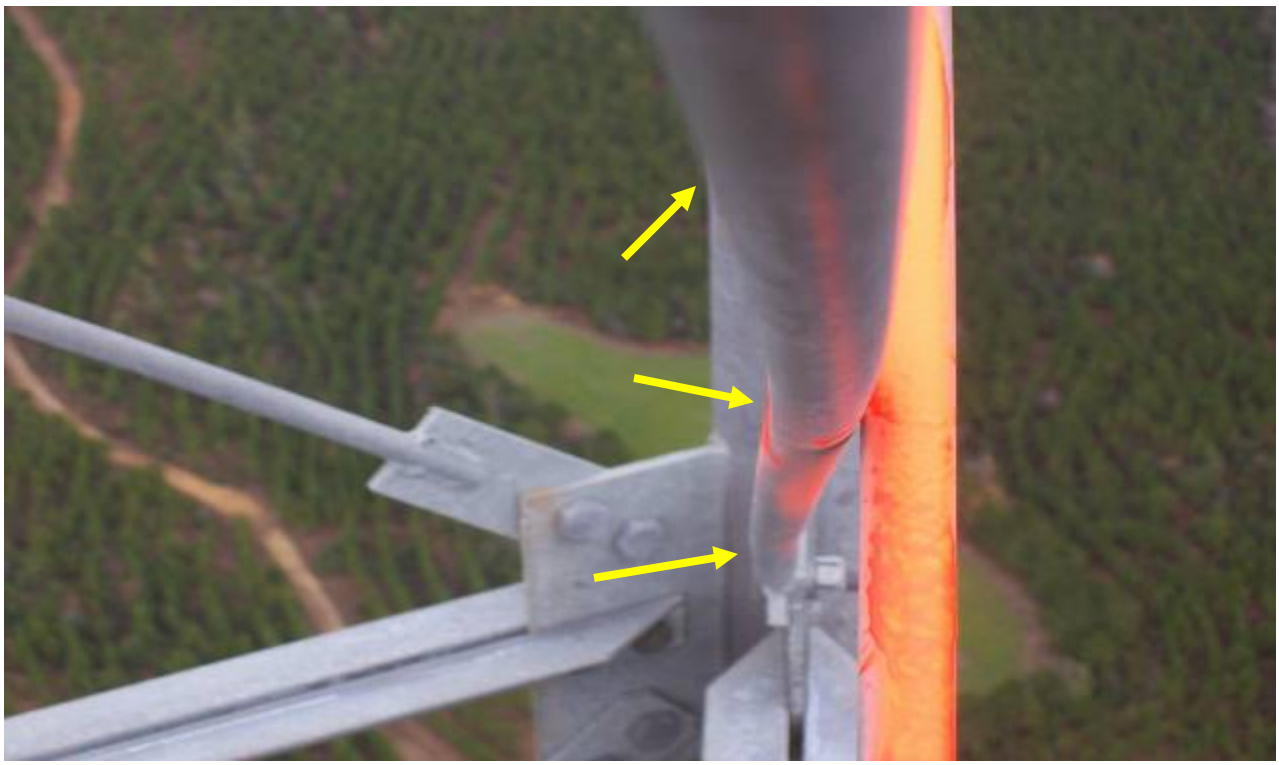
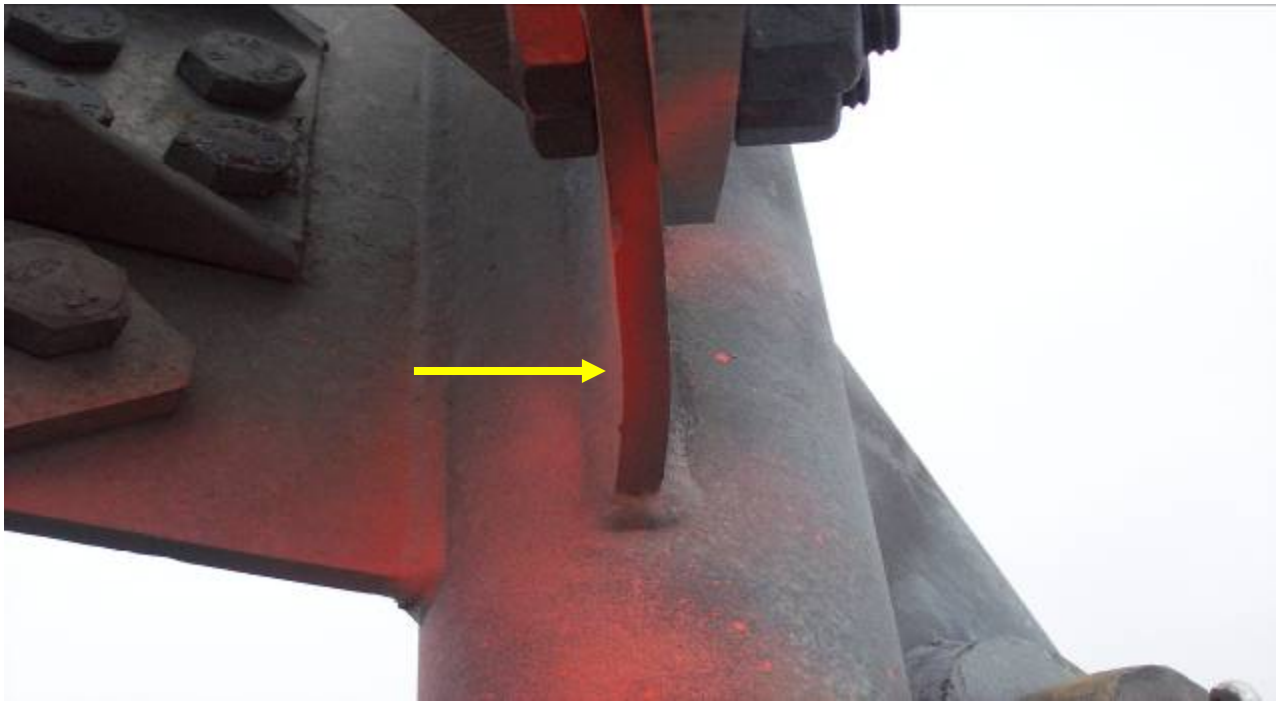


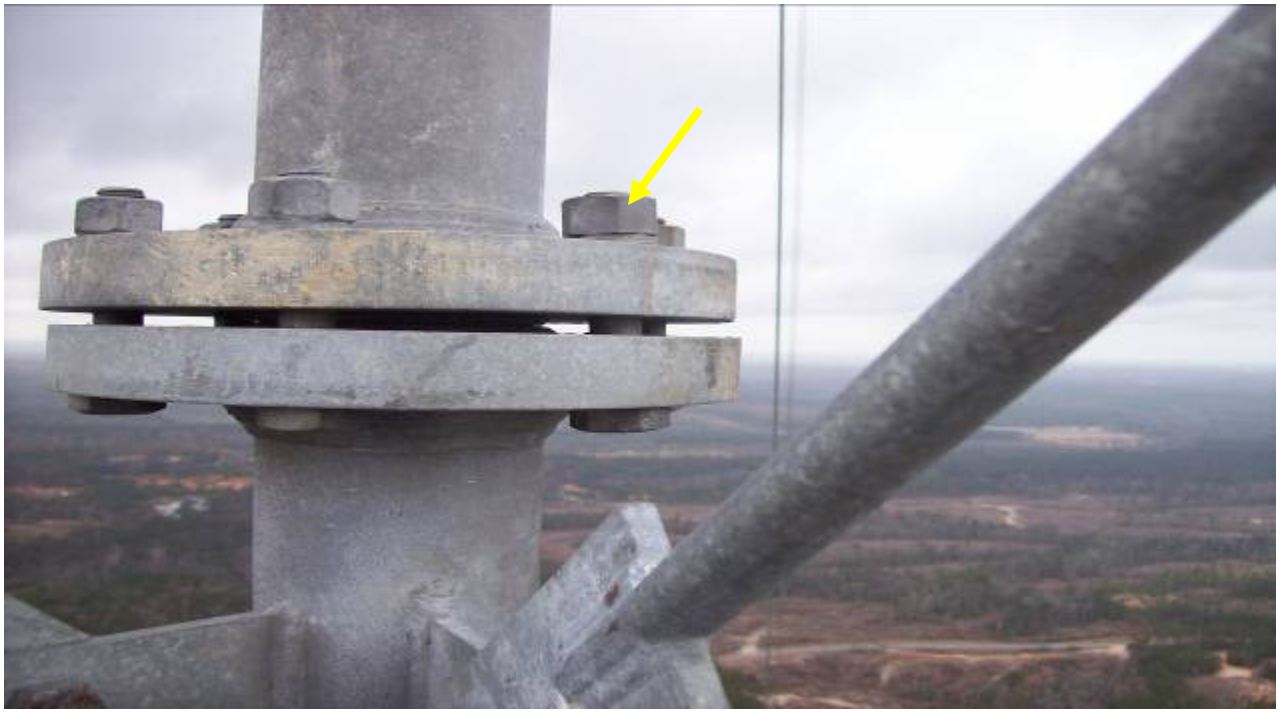
Photos show typical bent gusset plates.



Photos show typical bent gusset plates.

Photos show typical leg spice bolts that are misaligned due to over sized holes.

Photos show typical leg spice bolts that are misaligned due to over sized holes.



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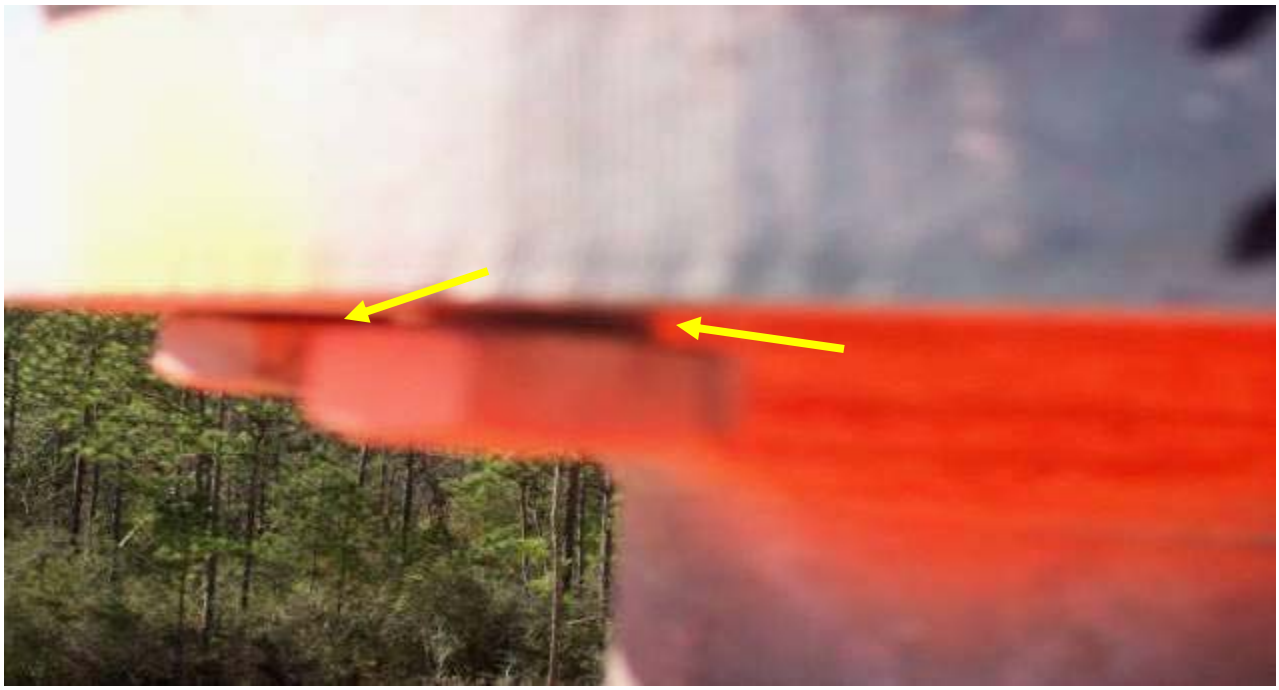

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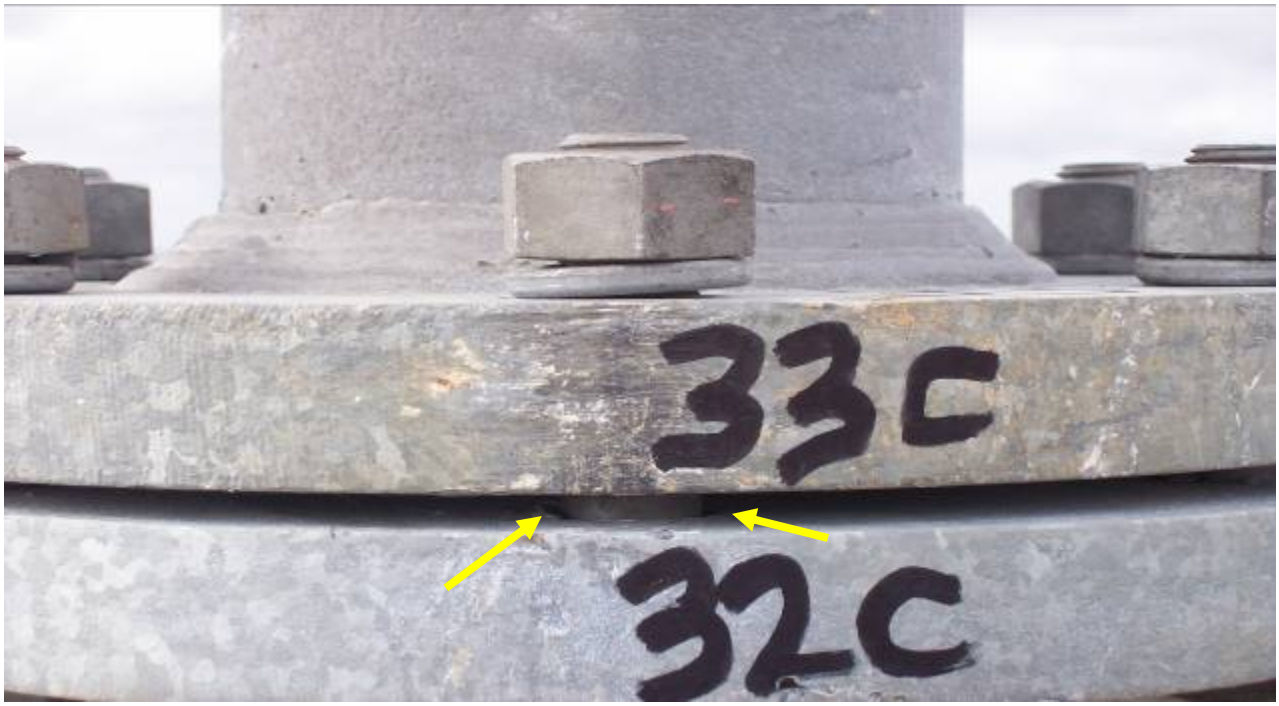


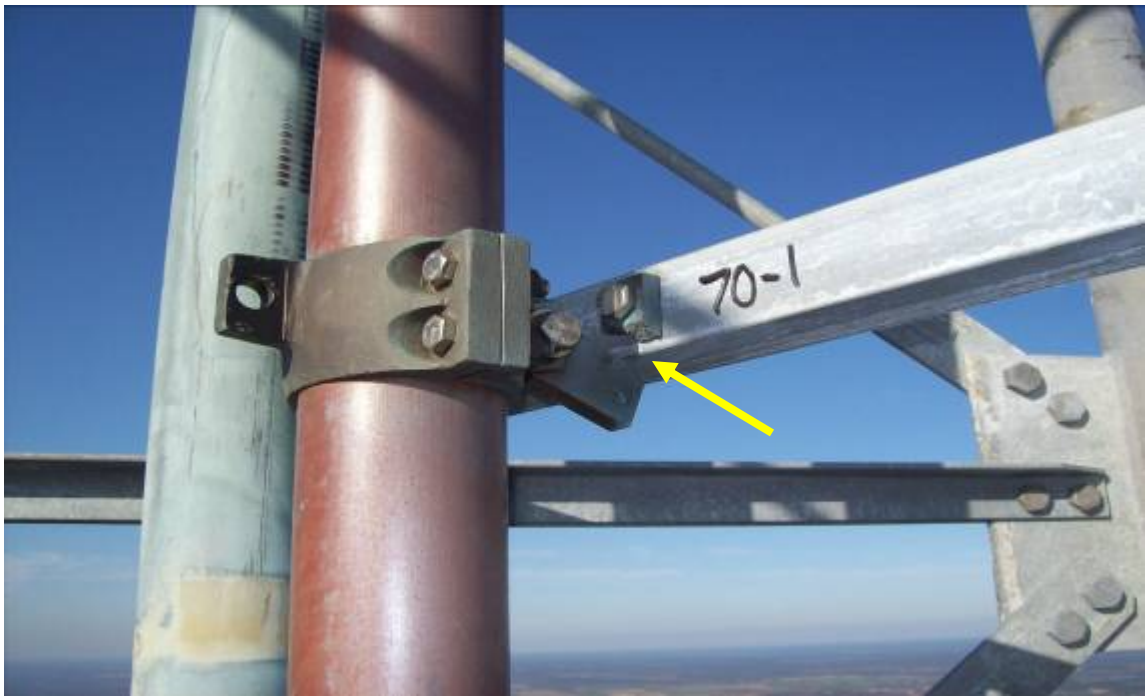
PHOTOGRAPHS

Photos show typical leg spice bolts that are misaligned due to over sized holes.

PHOTOGRAPHS

Photos show some of the damaged diagonal members that were removed from the tower after the gin pole was dropped.

Photos show the broken fixed hanger, improperly installed and improper/damaged stand-off mounting hardware securing the 3-1/8" rigid transmission line for the top FM antenna.

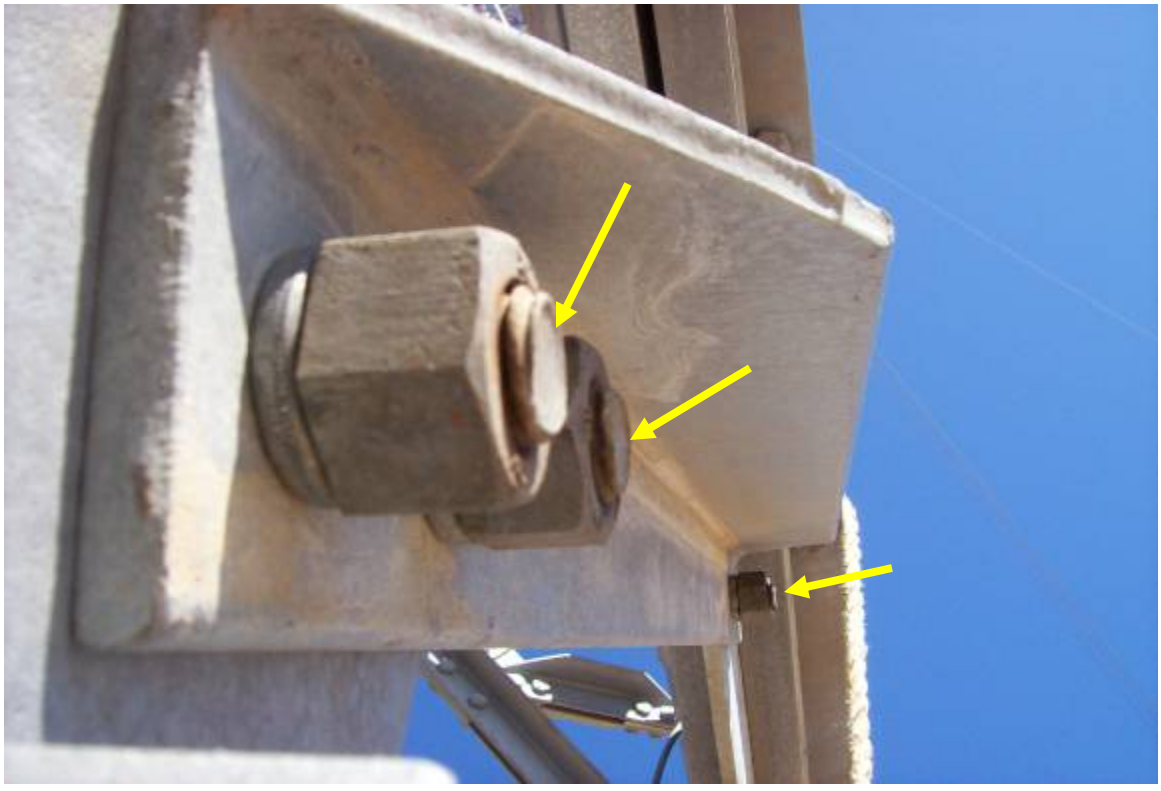


Photos show the improper/damaged stand-off mounting hardware securing the 3-1/8” rigid coax main feed line for the top FM antenna.

Photos show typical damaged element boxes on the top FM antenna bays.

Photos show typical structural bolts that are too short.

Photos show typical structural bolts that are too short.



Photos show typical structural bolts that are too short.

Photos show typical structural bolts that are too short.

Photos show typical short structural bolts.

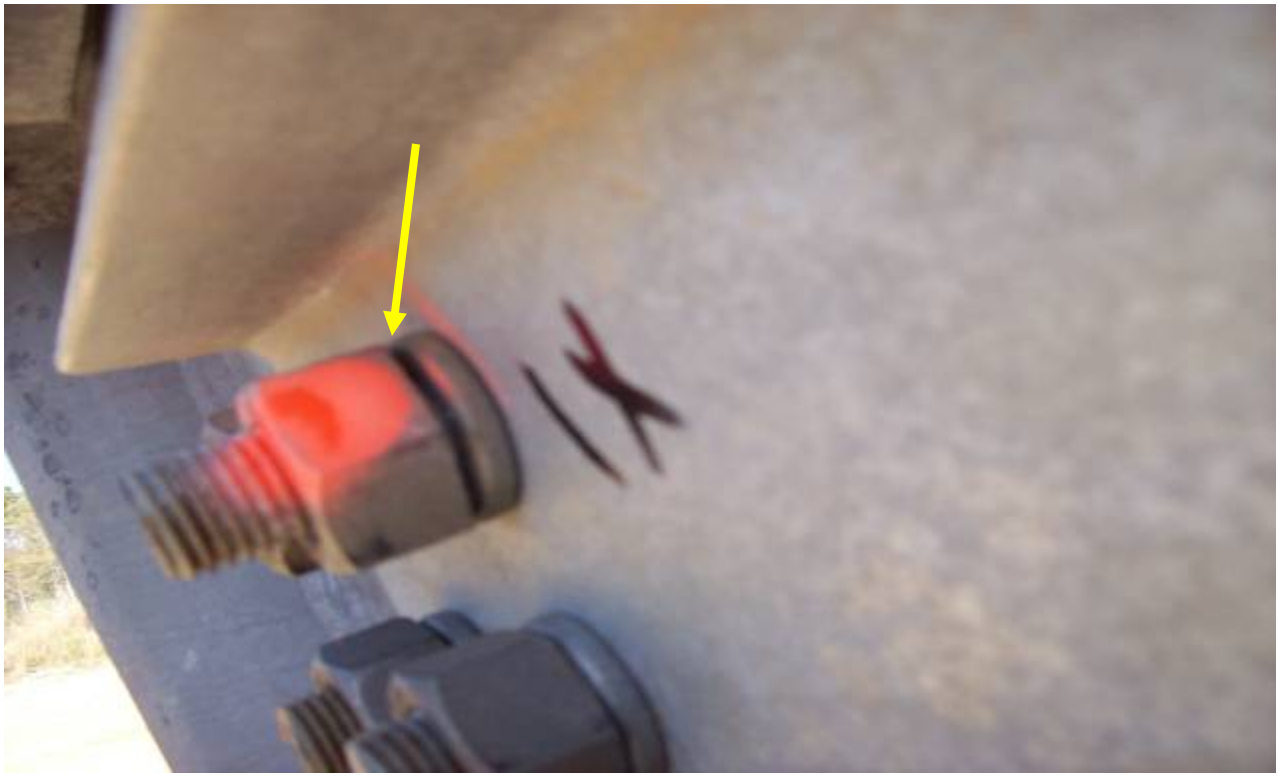
Photos show typical short leg pad bolts in the top sections.

Photos show the typical oversized u-bolts used for mounting the top FM antenna.

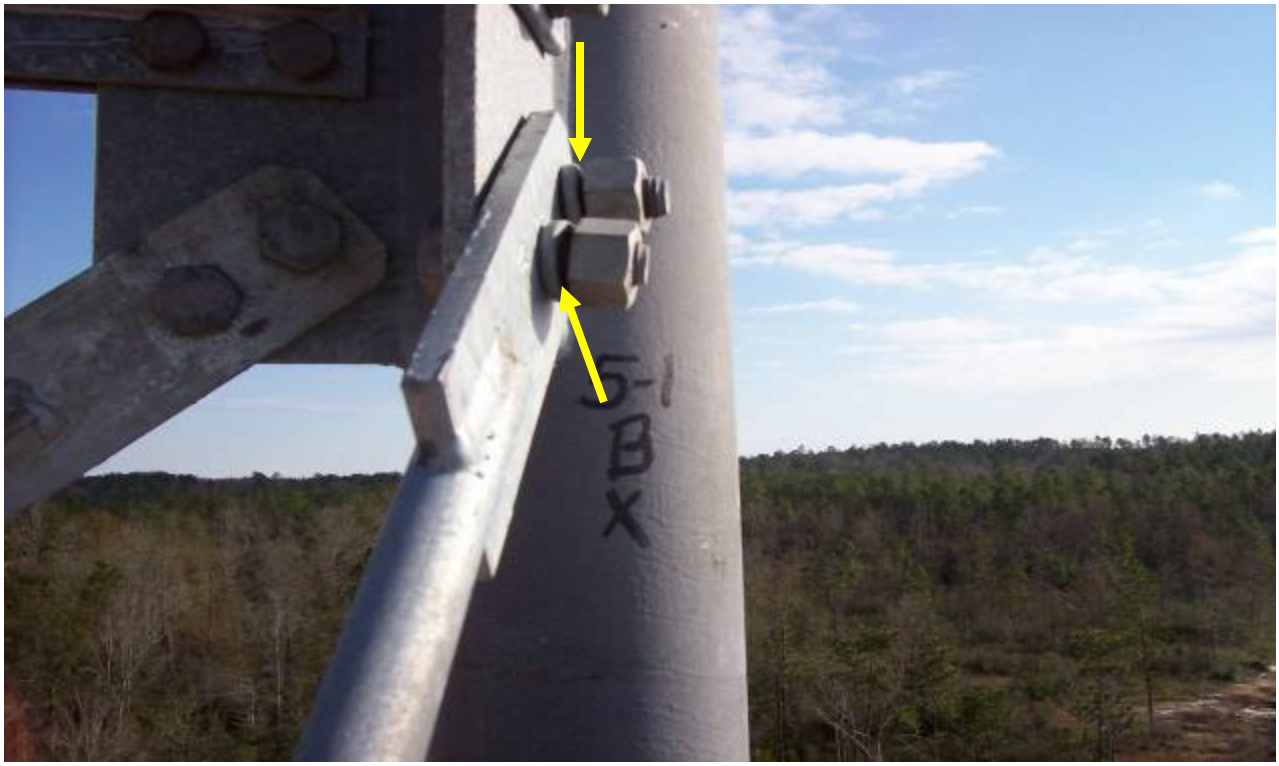
Photos show the two damaged FM antenna bay elements.

Photos show rigging left at the top of the tower in Section #73

Photos show loose structural member connection bolts.



Photos show loose structural member connection bolts.



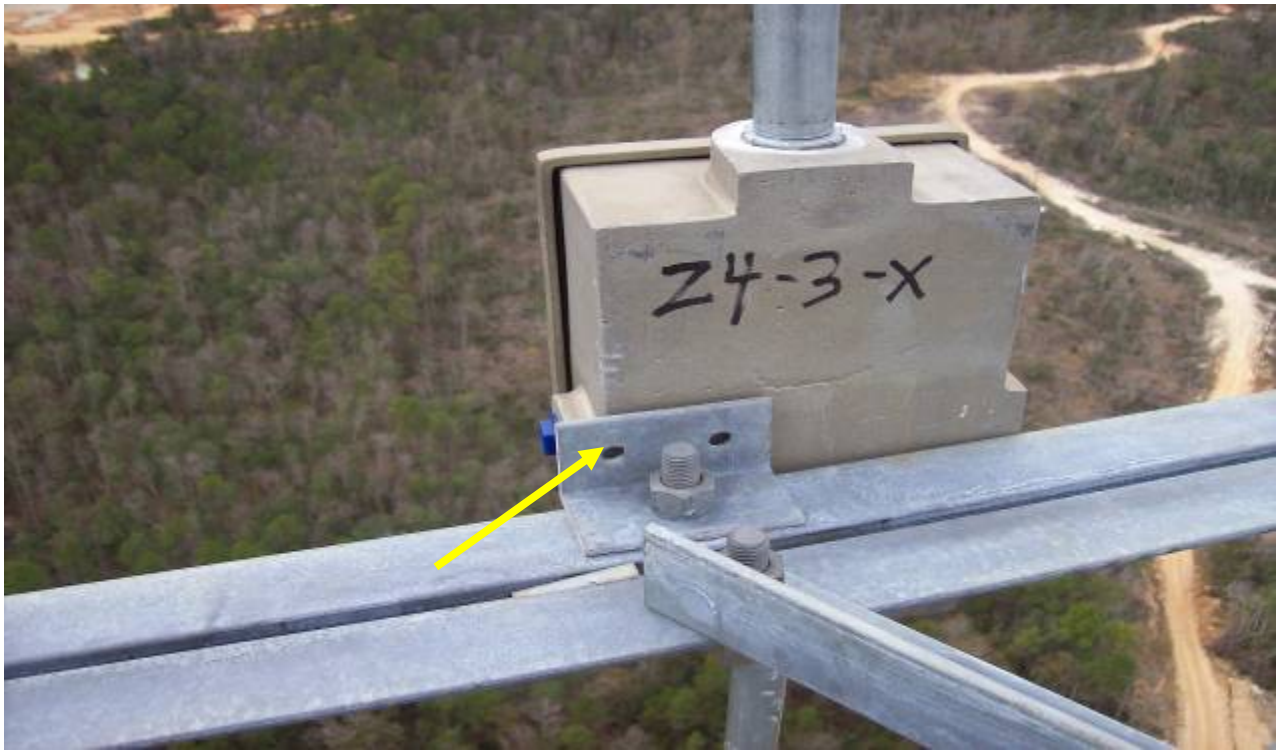
PHOTOGRAPHS

Photos show typical loose flexible type transmission lines.

PHOTOGRAPHS

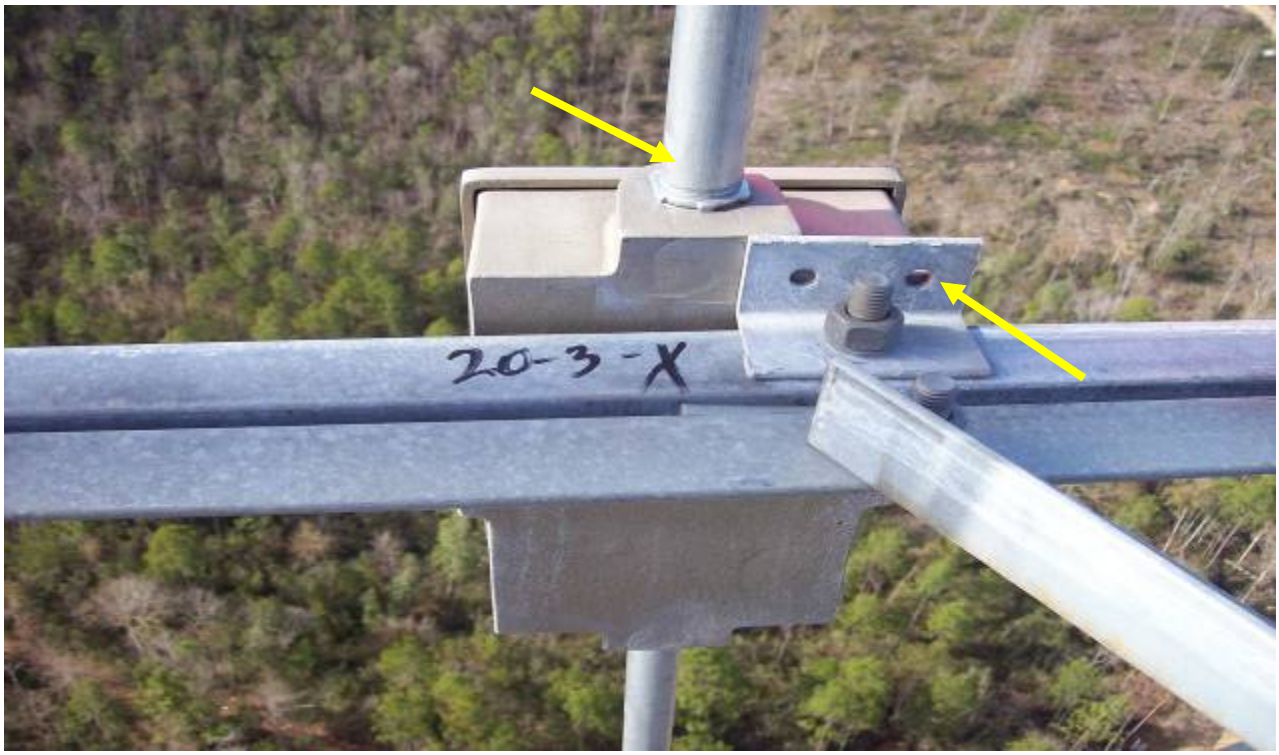
Photos show typical loose and improperly secured flexible type transmission lines.

Photos show typical conduit improperly secured.



PHOTOGRAPHS

Photos show typical conduit improperly secured. Note: the conduit is binding up and bending due to the missing expansion joints.



PHOTOGRAPHS

Photos show guy wire grounding cable that is not attached to the grounding rod and the grounding cable that is improperly attached to the tower base.

Photos show the typical unequally balanced sockets on the hairpins.

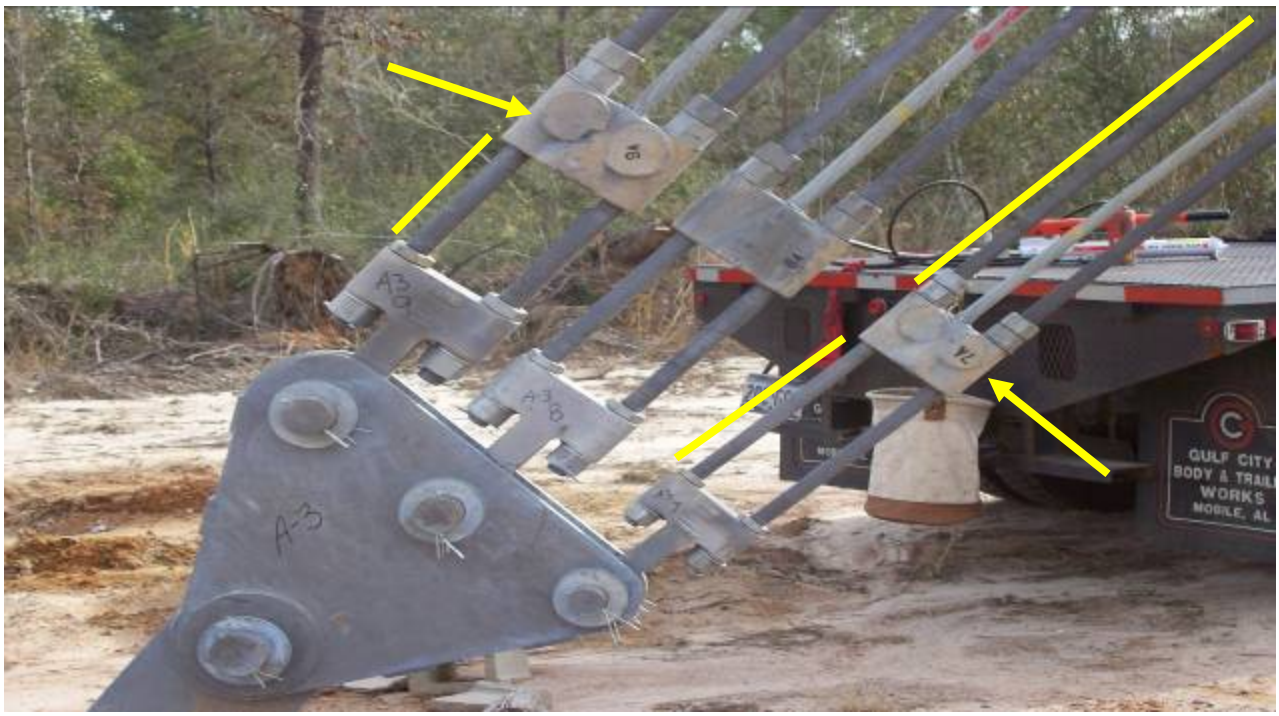
Photos show typical rusting safety cotter pins on anchor pins.

PHOTOGRAPHS

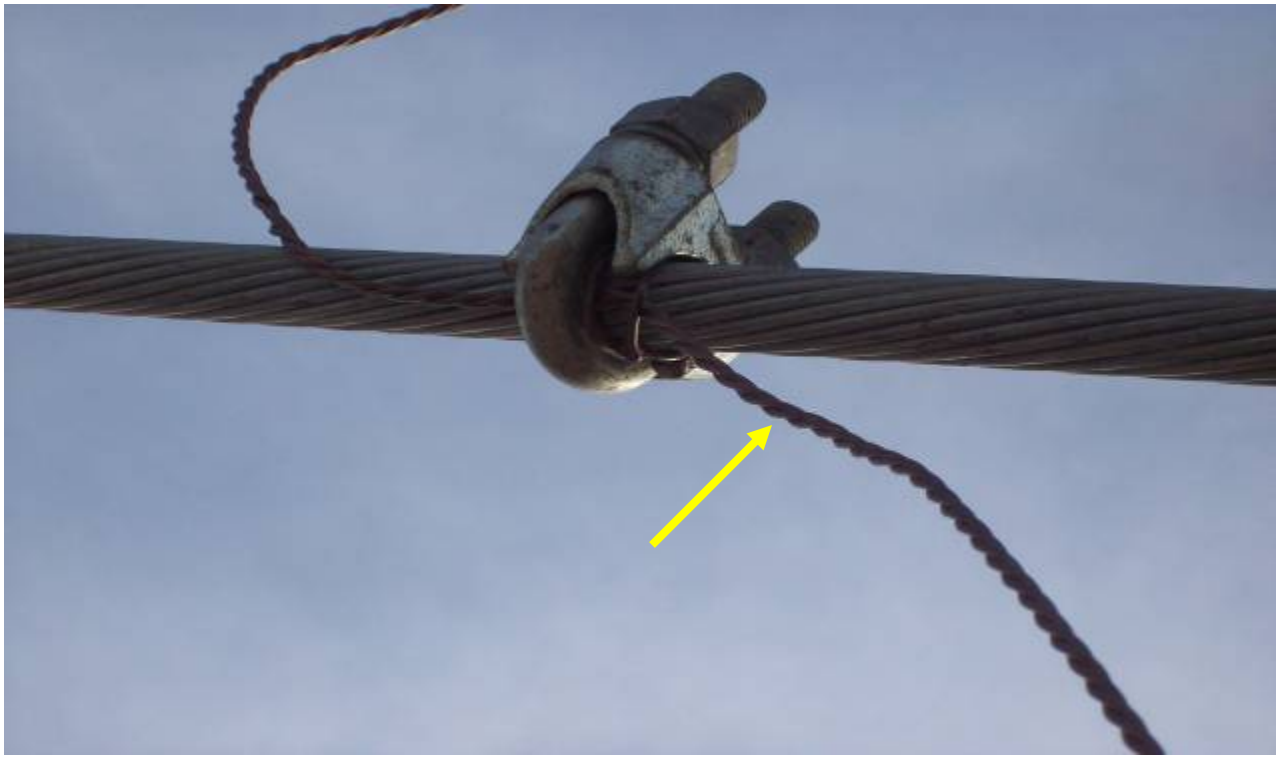
Photos show a missing safety cotter pin on an anchor pin and the #1 level guy wire hairpin at Anchor C-1 that is lying just above the ground.

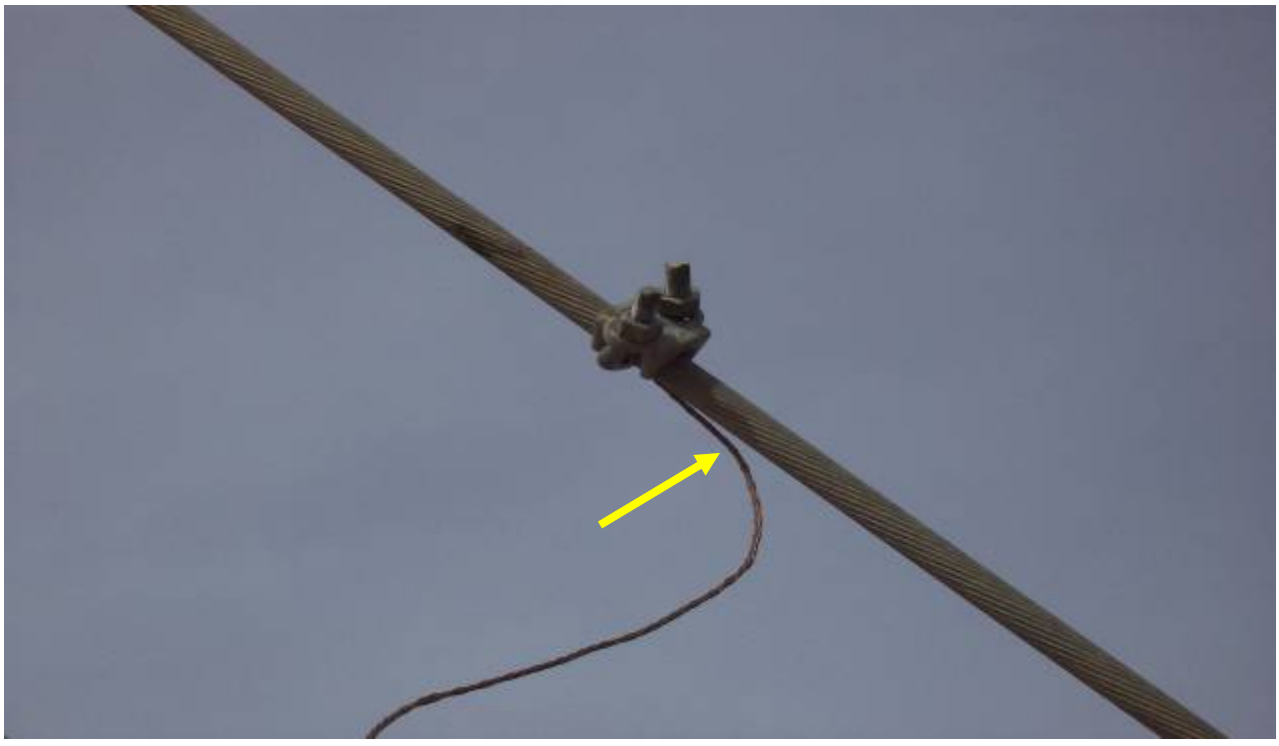
PHOTOGRAPHS

Photos show incorrect installation of guy wire 4-C installed at Anchor 4-A (tensions were check at A anchors) and limited room for guy wire adjustment on the hairpins at Anchor A-3 due to improper installation.

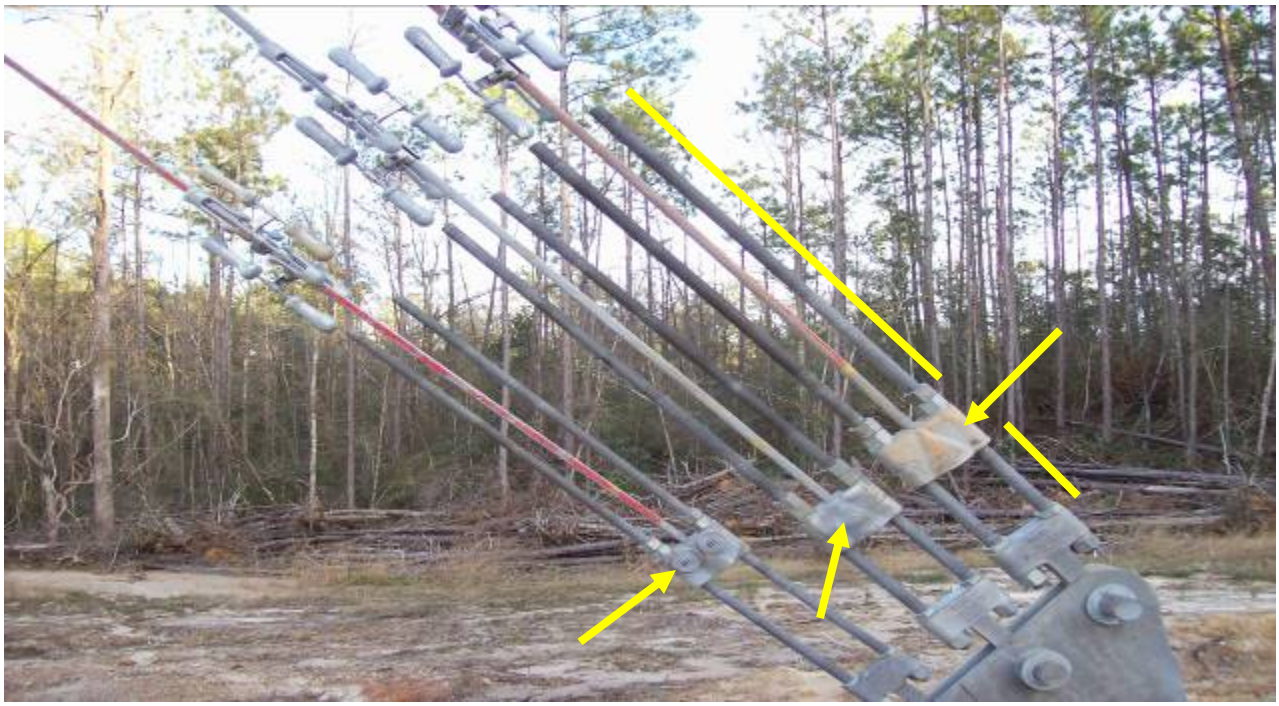


Photos show the improper use of copper grounding cable on galvanized wire.



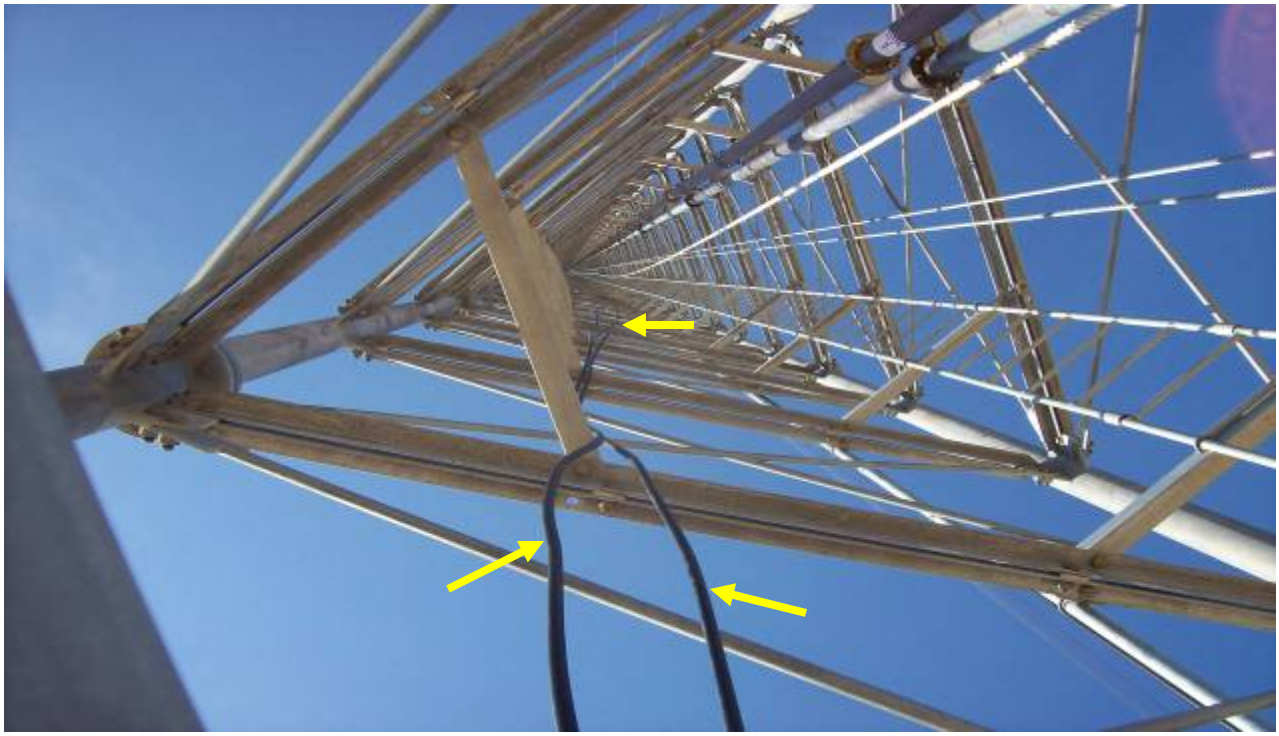


Photos show and limited room for guy wire adjustment on the hairpins due to improper installation.



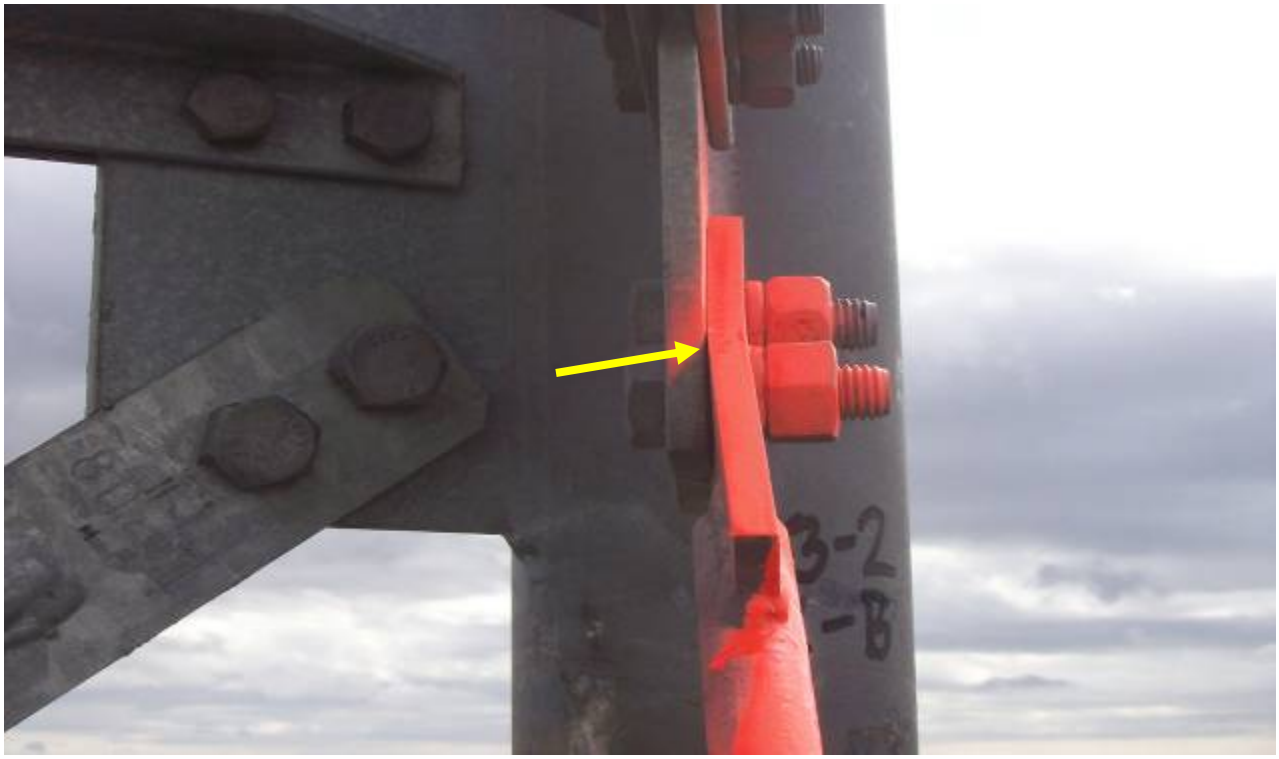
Photos show loose safety nuts on guy wire hairpins.

Photos show typical unsecured small flex lines.

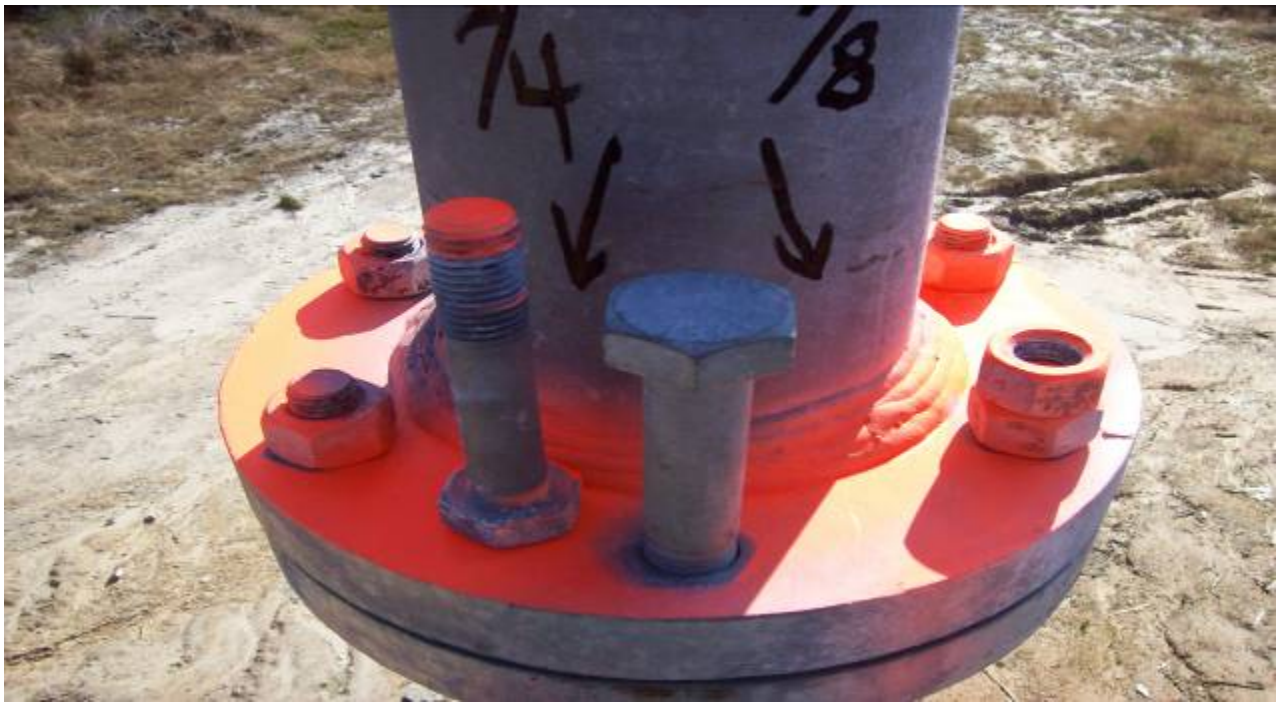


Photos show typical improperly secured small flex lines and the misaligned conduit.

Photos show typical deformed diagonal members.



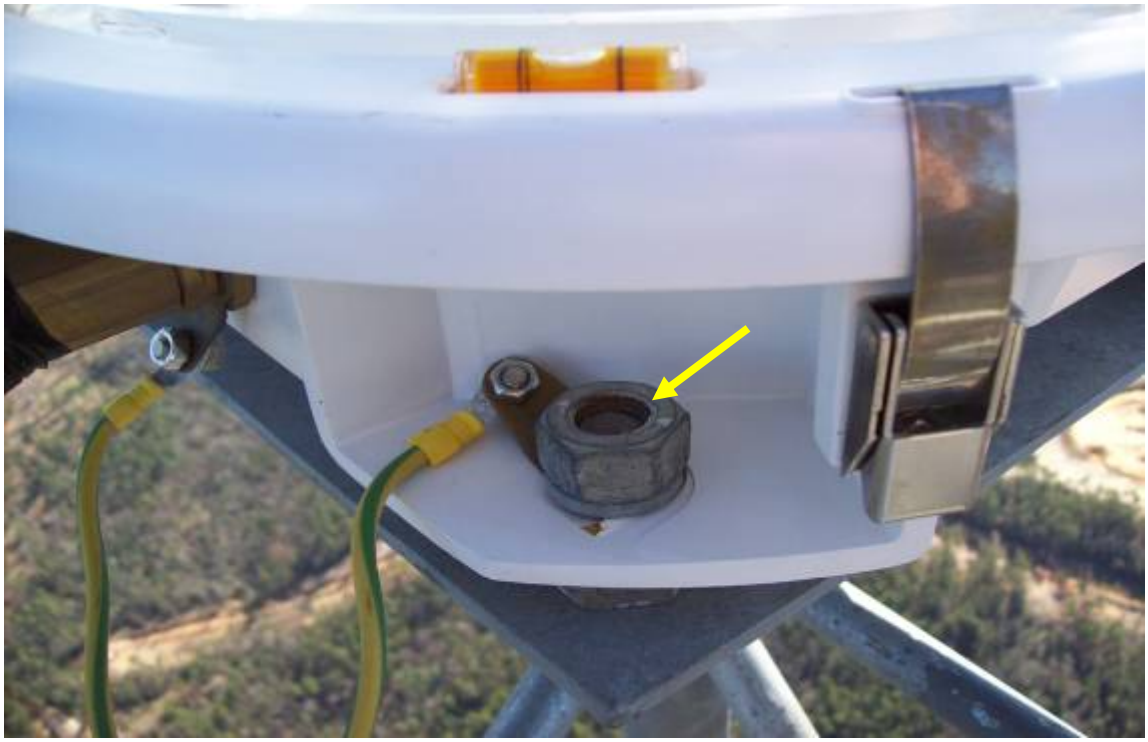
Photos show leg pads drilled for 7/8” bolts, but with 3/4” bolts installed.



Photos show leg pad bolts with washers improperly installed under the bolt head and abandoned rigging.

PHOTOGRAPHS

Photos show the lightning deterrent system and short bolts installed in the AOL beacon mount.



Photos show the bad weld on the transition ladder mount and the bowed transition ladder.

Photos show the unused antenna and flexible coax line.

Photos show power supply cords for the strobe lights improperly secured to the tower.