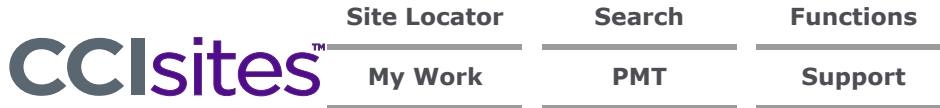




An error has occurred.  
Error #0  
Please contact the Help Desk:

[Report Issue](#)


Site ID: 877803 > Site Name: LEE'S SUMMIT FIRE STATION

## TIA CONDITION ASSESSMENT Read Only

Inspection Type: TIA Incident: ☐ Download Date: Feb 04 2022

Inspection Date: Feb 02 2022 Due Date: Jun 15 2022

Technician Name: Drew Kozak

Technician Company: ONE WAY WIRELESS CONSTRUCTION I

## TOWER MEMBER Read Only

### Structure A

#### 1. Bent members (Legs and Lacing)

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

#### Detailed Issue Description

#### 2. Loose members

☐ No Action Required ☒ Priority Action Required ☐ Routine Action Required ☒ Repaired ☐ NA

#### Detailed Issue Description

Angle adapter and snap in fall hazards were removed from tower at 140' & 180'. (0:10)

#### 3. Missing members

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

#### Detailed Issue Description

#### 4. Climbing facilities, platforms, catwalks - all secure

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

#### Detailed Issue Description

#### 5. Loose and/or missing bolts (10% checked)

Visually inspect 100% of all tower bolts {all legs of a SST and/or GUY tower and 360 degrees around the flange connections of a MP}; and hand check tightness {utilizing an adjustable spud type wrench} of 10% of the flange bolts to a snug tight condition, equally distributed sampling across the entire tower structure.

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

#### Detailed Issue Description

#### 6. Visible condition of welds (Quality)

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

#### Detailed Issue Description

#### 7. Confirm leg drain holes in hollow tower legs at the tower base are open for drainage and display no evidence of rust scale collecting inside the tower leg? (Guyed/Self Support Towers)

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

#### Detailed Issue Description

**8. Confirm drain holes in all hollow tower legs at every leg splice are open for drainage and display no evidence of rust inside the tower leg.**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**9. Confirm the hollow guyed tower legs are free of blockage by performing a "Ball Bearing Drop Test" on each leg. (BB test pass = No Action Required)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**10. Confirm all tower legs and leg splices in each section are free of rust.**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**11. Confirm tower bracing members, gussets, welds and connection hardware are free of rust.**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description**

**12. Confirm drain holes are installed at the top of grout (grout that is pumped into GT and SST Tower Legs)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

## TOWER FINISH Read Only

### Structure A

**1. Paint and/or galvanizing condition (paint due to jurisdiction or manufacturer galvanizing)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description**

**2. Rust and/or corrosion condition (including structure, nuts, bolts, etc.)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description**

**3. FAA or ICAO color marking conditions (Orange and White tower paint)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**4. Water collection in members (to be remedied, e.g., unplug drain holes, etc.)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description**

## TOWER LIGHTING Read Only

### Structure A

**1. Conduit, junction boxes, and fasteners weather tight and secure**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**2. Drains and vents open**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**3. Light lenses**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description**

**4. Tower Light Flash Head and Side Marker Cable (Secure and free from breaks and cuts)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****5. Is top tower light fixture obstructed by appurtenances of 7/8" or larger? (changed from 1-1/4" on 7/26/2021)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****6. Confirm no bird nests on or near tower lighting**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****7. Conduits and Power Cables attached securely fastened to tower.**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****8. Conduits and Power Cables attached free from rust, corrosion and breaks.**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****TOWER SAFETY CLIMB** Read Only**Structure A****1. Safety climb mounted, secured, and unrestricted for the extent of the entire structure.**

(Ensuring that the safety climb is mounted securely to the structure with-out being trapped or pinched behind attachments to the structure, such as antenna mounts, feedline mounts, etc.)

☐ No Action Required ☐ Priority Action Required ☒ Routine Action Required ☒ Repaired ☐ NA

**Detailed Issue Description**

Tuf Tug safety climb blind bolt head unit hardware was corrected. Upon arrival the washer orientation was incorrect and head unit had a gap from tower. (0:40)

**2. Safety climb guides in place and secure**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****3. Safety climb rust or corrosion**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****ANTENNAS AND LINES** Read Only**Structure A****1. Antenna condition**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****2. Mount and/or ice shield condition(bent, loose, and/or missing members)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****3. Feed line condition(flanges, seals, dents, jacket damage, grounding, etc.)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****4. Hanger condition(snap-ins, bolt on, kellum grips, etc.)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****5. Secure to structure**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****TOWER GROUNDING** Read Only**Structure A****1. Tower grounds connections**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****2. Lightning protection installed and secure (ie Rod, brushes, etc.)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****TOWER BASE FOUNDATION** Read Only**Structure A****1. Ground Conditions (Settlements or movements)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****2. Ground Surface Conditions (Erosion)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****3. Ground Surface Conditions (Site Conditions(water, trees))**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****4. Base Condition (Nuts and lock nuts tight)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****5. Base Condition (Grout Condition)**

☐ No Action Required ☐ Priority Action Required ☒ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description**

C2G observed on baseplate grout. Grout is showing minor signs of cracking and deterioration throughout and has calicum building up on grout exterior. Substantial tower debris and trash building up in pole at base of tower.

**6. Base Condition (Anchor bolt corrosion and center pin corrosion)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****7. Base Plate Welds (cracks, rust, corrosion, etc.)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****8. Base Plate Gussets (welds, rust, corrosion, etc.)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****9. Concrete Condition (Cracking, spalling or splitting)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****10. Concrete Condition (Chipped or broken concrete)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****11. Concrete Condition (Honeycombing)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****12. Concrete Condition (Low spots to collect moisture)**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****13. Weep Holes Clean and Open**

☒ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****TOWER ALIGNMENT** Read Only**Structure A****1. Tower Plumb and Twist**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☒ NA

**Detailed Issue Description****TOWER INSULATORS (AS REQUIRED)** Read Only**Structure A****AM DETUNING** Read Only**Structure A****1. AM detuning cables (Secure and unobstructed i.e. run freely in front of towers)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****2. AM detuning cables (corrosion)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****3. Resistor inside cabinet intact**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****4. AM detuning system grounding (in good repair)**

☐ No Action Required ☐ Priority Action Required ☐ Routine Action Required ☐ Repaired ☐ NA

**Detailed Issue Description****GUYED TOWER ANCHORS** Read Only**Structure A- Questions only apply to Guyed Towers****GUYED TOWER GUYS** Read Only**Structure A- Questions only apply to Guyed Towers****GUYED TOWER TENSION** Read Only

Structure A- Questions only apply to Guyed Towers

TOWER TWIST AND OUT-OF-PLUMB

Wind Speed:  MPH

Wind Direction:  Azimuth

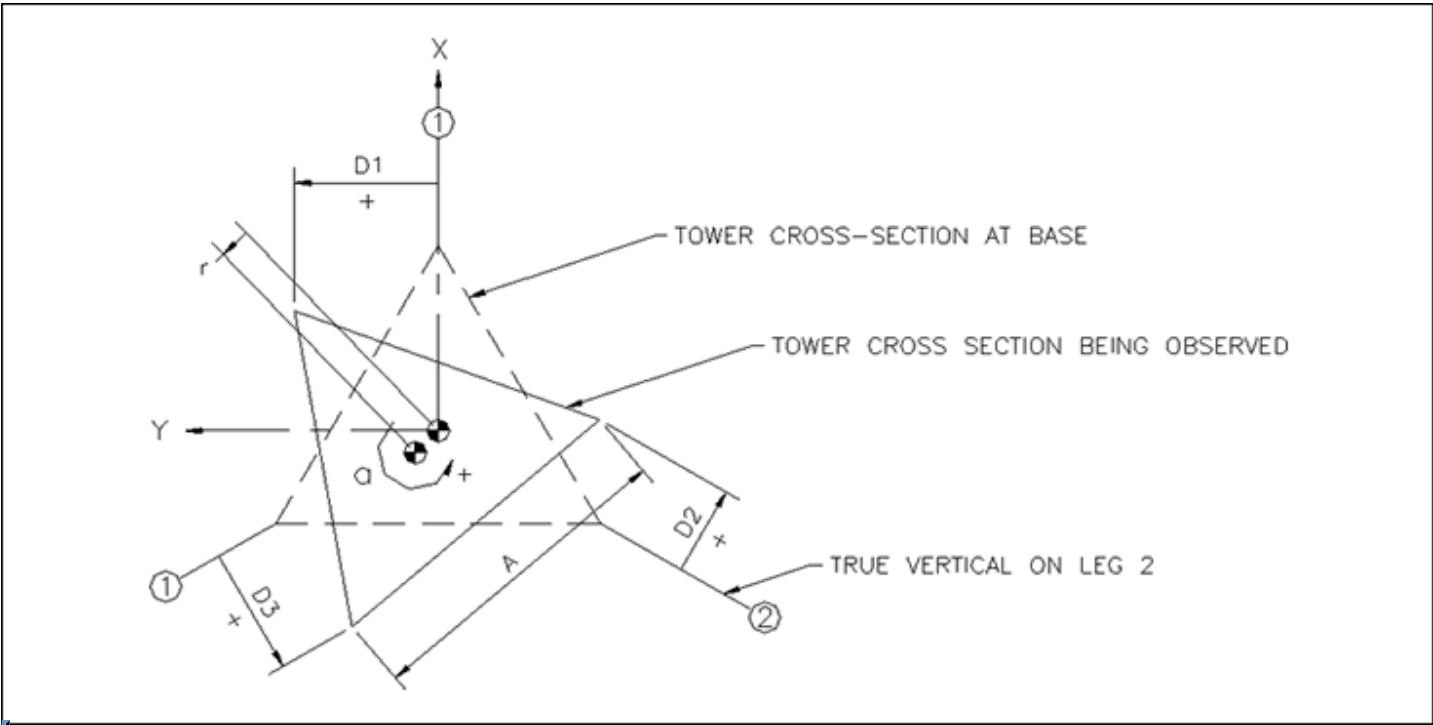
Structure A

\*Note: Three transit set-ups are required, one on each leg Azimuth sighting the corresponding tower leg at the base of the tower to set the true vertical. The Deflection at any point on the tower should be measured from this true vertical using the sign convention.

Twist and Out-of-Plumb Readings

Observed Mast Data    Calculated Twist    Calculates Out-of-Plumb

Mast ElevA	D1	D2	D3	d	ea	x	y	r
(ft)	(in)	(in)	(in)	(in)	(in)	(degrees)	(in)	(in)



APPURTENANCE AUDIT

Contractor:

Structure (A)

1. Did Tower Antenna/Appurtenance configuration agree with physical tower record? ☒ Yes ☐ No

Comment:

2. Did the current AsBuilt placement of Coax agree with last Structural Analysis? ☒ Yes ☐ No

Comment:

3. Is the Appurtenance Audit contractually required to be performed? ☐ Yes ☒ No

Highest Appurtenance:

Elevation of top of top Appurtenance:  Feet  Inches

Tower Lightning Rod: ☐ Yes ☒ No

Lighting System Type:

Lighting System Model Number:

Elevation for top Strobe/Beacon:  Feet  Inches

Elevation for Side Markers at 3/4 Tower Height:  Feet  Inches

Elevation for Side Markers at 2/3 Tower Height:  Feet  Inches

Elevation for Side Markers at 1/2 Tower Height:  Feet  Inches

Elevation for Side Markers at 1/3 Tower Height:  Feet  Inches

Elevation for Side Markers at 1/4 Tower Height:  Feet  InchesRead  
Only**STRUCTURE HEIGHT MEASUREMENT****Structure (A)**1. Was a structure height audit performed? ☒ Yes ☐ No

Site Name:

LEE'S SUMMIT FIRE  
STATION

Tower Manufacturer:

ENGINEERED ENDEAVOR

Site Business Unit:

877803

Tower Model

Q26501

FCC Number:

1002199

Number:

Lighting System

Type:

Report Prepared by (Company):

392264

Phone:

Total Height: (f + h + a)

195 Feet 3 Inches

FAA Approved Height

200 Feet

Height with Appurtenance: (hwa)

194 Feet 8 Inches

Height of Appurtenance: (a)\*

15 Feet  Inches

What is the highest appurtenance:

Whip

Height of Structure: (h)\*

179 Feet 8 Inches

Height of Foundation: (f)\*

 Feet 7 Inches

Height of Tower Extension:

 Feet  InchesHeight of Tower Light Side Marker  
Placements: Feet  InchesHeight of Tower Light Side Marker  
Placements Value 2: Feet  InchesHeight of Tower Light Side Marker  
Placements Value 3: Feet  Inches

Method of measurement:

LSRNGF

Method of Measurement Comment:

Distance from centroid at base of structure  
to laser tripod: Feet  Inches

Comments:

\* - Items marked with a red asterisk indicate required fields

**DOCUMENTATION**

Read Only

Is this site equipped with an elevator? ☐ Yes ☒ No**Structure A**

1. Does structure match tower manufacturer drawings?

☒ Yes ☐ No

Comment:

2. Is there a tower reinforcement?

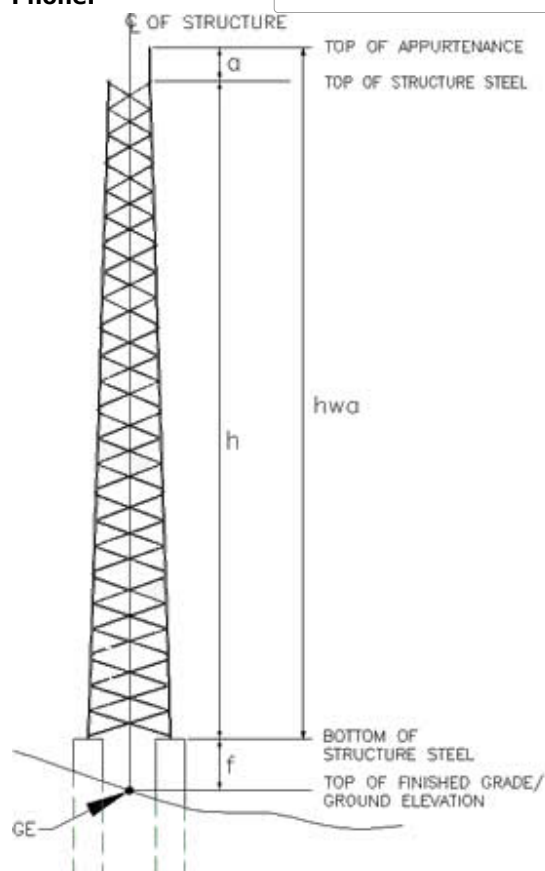
☐ Yes ☒ No

Comment:

3. Does the tower reinforcement installation match design drawings?

☐ Yes ☐ No

Comment:

**NOC AND DATA TICKETS**

**NOC Tickets - Open****NOC Tickets - Closed (within the last 12 months)****Data Tickets - Open****Data Tickets - Closed (within the last 12 months)****SUMMARY NOTES****Summary Notes:**

Inspection completed by Victor Rogers and Mike Kidd Tuf Tug Safety Climb Site left clean and secure.

**Priority Action Required Tickets ( )****Tower Member: 2. Loose members**

**Detailed Issue Description:** Angle adapter and snap in fall hazards were removed from tower at 140' & 180'. (0:10)

**Priority Action Required Tickets ( )****Tower Base Foundation: 5. Base Condition (Grout Condition)**

**Detailed Issue Description:** C2G observed on baseplate grout. Grout is showing minor signs of cracking and deterioration throughout and has calcuim building up on grout exterior. Substantial tower debris and trash building up in pole at base of tower.

**Tower Safety Climb: 1. Safety climb mounted, secured, and unrestricted for the extent of the entire structure.**

**Detailed Issue Description:** Tuf Tug safety climb blind bolt head unit hardware was corrected. Upon arrival the washer orientation was incorrect and head unit had a gap from tower. (0:40)