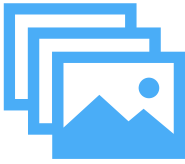
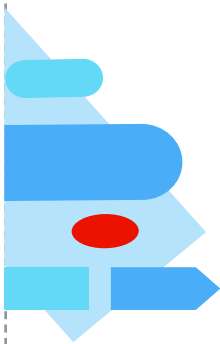


Cell/Telecom Tower Inspection Checklist

Use this cell tower inspection app for inspecting conditions, maintenance issues, and to ensure the safety of SST or guyed towers. The Fulcrum mobile app enables full customization, automatic reporting, and more. Find the digital version of this form and more at <https://www.fulcrumapp.com/apps/cell-tower-inspection>.

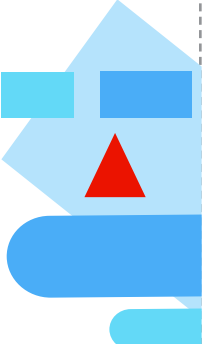
Site Location _____

Tower Photo



Attach Key Photos Here

With Fulcrum, photos you take with your phone automatically get included with the rest of your data.



Tower Elevations

Tower Height Above Ground _____

- ▶ Indicate locations of all antennas, antenna mounting brackets, microwave dishes, transmission line sizes to each antenna.

Tower Structure

- ▶ General conditions satisfactory?

Yes No

- ▶ Any loose bolts?

Yes No

- ▶ Any damaged members?

Yes No

- ▶ Any signs of unusual stress or vibration?

Yes No

- ▶ Any missing members?

Yes No

- ▶ Are climbing ladders, platforms, and safety equipment secure?

Yes No


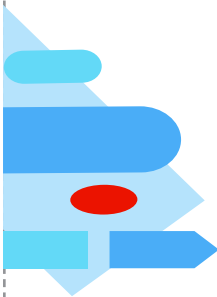
- ▶ **STRUCTURAL MEMBERS:** Spot check at least 10 bolts on the vertical tower members at intervals of approximately 25 feet apart on all tower faces.

- ▶ How many bolts and/or nuts were found missing?

- ▶ Any fractures, bends, or defective welds on structural members?
 Yes No
- ▶ Are tower base anchor bolts tight?
 Yes No
- ▶ Is general condition of stub antenna towers satisfactory?
 Yes No
- ▶ Are guyed tower cantilevered joints above the guy level?
 Yes No
- ▶ Guy and torque arm lugs satisfactory?
 Yes No
- ▶ Are welds on equalizer plate where it connects to anchor shaft satisfactory?
 Yes No

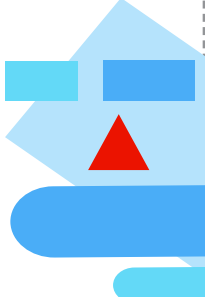
Tower Foundations and Guy Anchors

Foundations and guy anchors photo



Attach Key Photos Here

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- ▶ **General conditions satisfactory?**
 Yes No
- ▶ **Is exposed concrete protected?**
 Yes No
- ▶ **Are any cracks observed?**
 Yes No
- ▶ **Are there any signs of movement?**
 Yes No
- ▶ **Are anchors clear of brush, vines, and trees?**
 Yes No
- ▶ **Tower and anchors fenced?**
 Yes No
- ▶ **Is grading sufficient to ensure proper water drainage?**
 Yes No
- ▶ **Is guy anchor head clear of earth?**
 Yes No
- ▶ **Any evidence of anchor bolt corrosion?**
 Yes No
- ▶ **Any low spots that may collect moisture?**
 Yes No

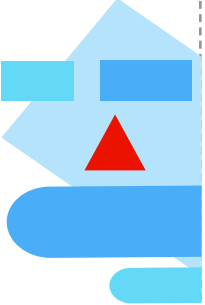

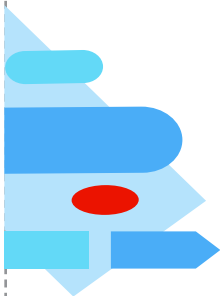
▶ **STRUCTURAL MEMBERS**

- ▶ **Guy plates and rods inspected for bends and fractures?**
 Yes No
- ▶ **Concrete tower foundation(s) inspected for cracking, spalling, and settling?**
 Yes No

- ▶ Guy anchor foundations inspected for cracking, weathering, and creepage?
 Yes No
- ▶ Anchor rod below earth to a depth of at least 12 inches?
 Yes No
- ▶ Has base of tower been properly grouted with sufficient drain holes?
 Yes No
- ▶ Any obstructions in drain holes?
 Yes No
- ▶ Have obstructions been cleared?
 Yes No

Guy Wires and Fittings

Guy wires and fittings photo



Attach Key Photos Here

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- ▶ General conditions satisfactory?
 Yes No

▶ Connection points (top and bottom) in satisfactory condition?

Yes No

▶ Are end fittings secure?

Yes No

▶ Is rusting evident?

Yes No

▶ Is vibration observed?

Yes No

▶ **STRUCTURAL MEMBERS**

▶ All turnbuckles inspected for slippage and condition?

Yes No

▶ Turnbuckle jam-nut safeties and cable safeties inspected?

Yes No

▶ Guy cable clamps inspected for security and slippage?

Yes No

▶ All pre-forms inspected for unwinding and slippage?

Yes No

▶ All shackles, clevises, and thimbles inspected?

Yes No

▶ Guy wire dead ends inspected?

Yes No

▶ Did you visually inspect all guy wires with binoculars for broken strands and/or damaged insulators?

Yes No

▶ GUY WIRE TENSION

▶ What method was used for the guy wire tension measurements?

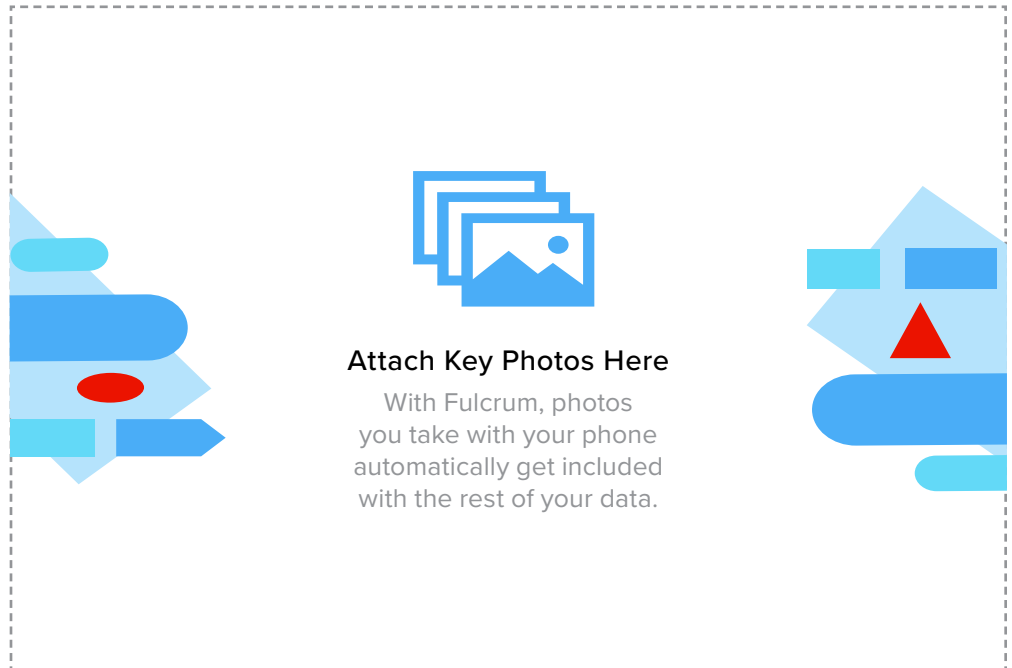
▶ What was temperature, wind direction and velocity during guy wire measurements and adjustments?

Notes

Guy wire size?

Antennas, Microwave Dishes, and Transmission Lines

Antennas, microwave dishes, and transmission lines photo



Attach Key Photos Here

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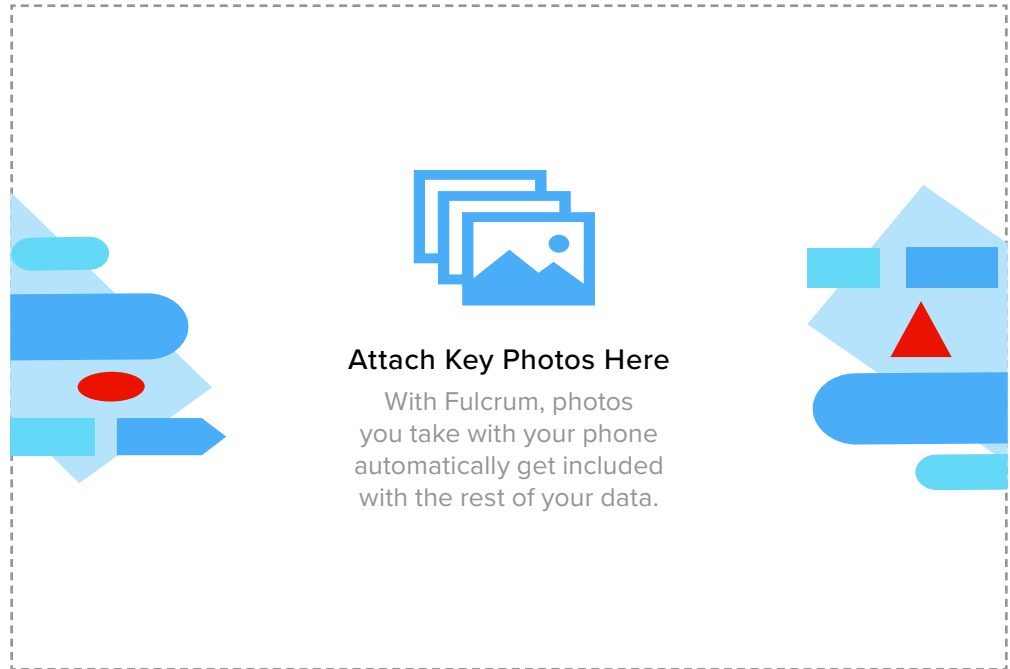
- ▶ **General conditions satisfactory?**
 Yes No
- ▶ **Any loose hardware found?**
 Yes No
- ▶ **Any antenna misalignment or physical damage present?**
 Yes No
- ▶ **Were antenna deicers operational and inspected?** Choose one.
 Yes No N/A

▶ **SPECIFIC HARDWARE INSPECTION**

- ▶ **All antennas, microwave dishes, feed horns, and radomes inspected for any signs of damage and shifting?**
 Yes No
- ▶ **All antenna coaxial cables, jumpers, and fittings inspected?**
 Yes No
- ▶ **All antenna mounting brackets, supports, and bracing inspected?**
 Yes No
- ▶ **All transmission lines inspected for damage, loose bolts, and water and air leaks?**
 Yes No
- ▶ **Inspection completed for loose or missing coaxial cable and waveguide clamps, supports, and restrainers?**
 Yes No
- ▶ **If transmission line is wrap-locked, was inspection completed of protective covering under the wrap-lock for signs of chafing?**
 Yes No
- ▶ **Are transmission line supports no more than 4 feet apart?**
 Yes No

Paint and Obstruction Marking

Paint and obstruction marking photo



- ▶ **General conditions satisfactory?**
 Yes No
 - ▶ **Is rusting evident?**
 Yes No
 - ▶ **Any rusting evident?**
 Yes No
 - ▶ **Is painting necessary?**
 Yes No
 - ▶ **Any paint splatter near the surrounding area?**
 Yes No
 - ▶ **RUST AND CORROSION**
-


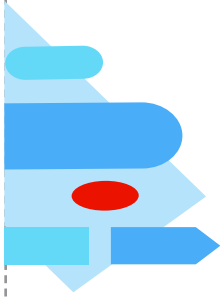
- ▶ Does any part of the tower appear to have rust?
 Yes No
- ▶ All antenna mounts and hardware inspected for rust?
 Yes No
- ▶ All guy plates and rods inspected for rust and corrosion?
 Yes No
- ▶ All guy cable clamps inspected for rust?
 Yes No
- ▶ Ice shields inspected for rust? Choose one.
 Yes No N/A
- ▶ Transmission line clamps and hanger bolts inspected for rust?
 Yes No

▶ TOWER PAINT

- ▶ Any paint peeling, flaking, or fading?
 Yes No
- ▶ Does paint meet FAA regulations?
 Yes No

Electrical and Lighting Systems

Electrical and lighting photo



Attach Key Photos Here

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General conditions satisfactory? Yes No

Incandescent lamps replaced? Yes No

Beacons Yes No

Beacons type _____

Obstruction Yes No

Obstruction type _____

INCANDESCENT LAMP VOLTAGE AT SOCKET UNDER LOAD

	Socket 1	Socket 2	Socket 3
TOP	▶	▶	▶
1/3 FROM TOP	▶	▶	▶
MIDWAY	▶	▶	▶
2/3 FROM TOP	▶	▶	▶

▶ SPECIFIC INSPECTION ITEMS

▶ Old incandescent removed and destroyed?

Yes No

▶ All lamps found burning?

Yes No

▶ All strobe lights found burning?

Yes No

▶ Photoelectric control working properly?

Yes No

▶ Flasher unit operational?

Yes No

▶ Inspection completed for broken or cracked beacon and obstruction globes?

Yes No

- ▶ **Inspection of beacon closure bolt completed?**
 Yes No

- ▶ **Inspection for sidelight gasket conditions completed?**
 Yes No

- ▶ **Inspection for beacon and sidelight socket condition completed?**
 Yes No

- ▶ **Inspection of internal wiring of beacon completed?**
 Yes No

- ▶ **Are all drain holes open and clean?**
 Yes No

- ▶ **Inspection of conduit, conduit clamp, and junction box completed?**
 Yes No

- ▶ **Inspection of overall appearance of the electrical system connections completed?**
 Yes No

Certification

Satisfactory? Pass Fail

Explanation of
Unsatisfactory
Conditions

Field technician name

Please print

Signature

Date

____ / ____ / ____

Time

____ : ____ AM / PM



Fulcrum is a mobile app creation platform that lets you digitize checklists like this easily — and automate related workflows! — without writing any code.

Check us out at fulcrumapp.com/checklists