



4/20/2022

To: City of Scottsdale

RE: RF Compliance Evaluation
Verizon AZ_PHO_SHADOWS_01_SC
Landlord Site ID
Light Pole Number 75514
Site Located at 4940 N Scottsdale Rd

To Whom It May Concern,

We write to inform you that Verizon has performed a radio frequency (RF) compliance evaluation for the above-noted site and based on the result of the evaluation, this site is compliant with FCC Guidelines.

The FCC has established safety guidelines relating to potential RF exposure from cell sites. The FCC developed the standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The FCC provides information about the safety of radio frequency (RF) emissions from cell towers on its website at: <https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

To ensure general public safety, it is important that you contact Verizon personnel at least 24 hours in advance should general maintenance need to be performed on the in areas where antennas are present. This is required to comply with FCC guidelines and ensure the environment is safe for general maintenance workers who may not have RF Safety & Awareness training. With notification, Verizon is able to evaluate appropriate actions needed relating to the antennas and proximity of the work location.

Please refer to FCC Office of Engineering and Technology Bulletin 65 and the attached RF Brochure if you would like further information on RF exposure guidelines, RF safety, and property owner responsibilities. Policy-related questions should be directed to VZWRFCompliance@verizonwireless.com.

If you have any additional questions or concerns, please contact your local Verizon resource below:

Contact Name	Contact Email	Contact Phone
Jeffrey J Poloncak	jeffrey.poloncak@verizonwireless.com	480-777-4306

In the event that emergency maintenance must be performed on the facility and the above-noted contact is not available, please call the Verizon Network Operations Center at **800-264-6620** for assistance.

Sincerely,

Jeffrey J. Poloncak

Sr Manager-RF System Design

Verizon

Property Owner Responsibilities

(M.E.N.U)

RF exposure safety and the protection of every licensee's infrastructure are very important. Property owners and licensees have a shared responsibility in maintaining a safe and secure RF environment. Property owners can help in this significant endeavor by:

- ⇒ **M**aintaining all necessary wireless licensee contact information.
- ⇒ **E**nforcing restricted access (help maintain a Controlled Environment). **E**nsuring all building/maintenance personnel are aware that the potential for exposure exists, and follow all appropriate entry and safety procedures.
- ⇒ **N**otifying all licensees when any non-carrier requests access to any area with antennas **at least 24 hours in advance**.
- ⇒ **U**nderstanding that compliance with the FCC and OSHA can be achieved with RF Exposure levels above the applicable limit if the proper signage, physical barrier, and access restrictions are implemented. Commitment to compliance and willingness to cooperate are essential.

For General RF Safety & Awareness Questions

Verizon Wireless

E-mail: **VZWRFCCompliance@vzw.com**

E-mail Subject: "ATTN: RF Compliance"

In The Event That Emergency Maintenance Is Required

24-Hour Network Operations Center:

1-800-264-6620



RF Safety & Awareness Training Contacts

Amirit Technologies

(www.amirit.com)

C-Squared Systems

(www.csquaredsystems.com)

Dtech Communications

(www.dtechcom.com)

EBI Consulting

(www.ebiconsulting.com)

Global RF Solutions

(www.grfs.net)

Hammett & Edison, Inc.

(www.h-e.com)

Lawrence Behr Associates, Inc.

(www.lbagroup.com)

LCC

(www.lcc.com)

Millennium Engineering

(www.millenniumengineering.net)

Pinnacle Telecom Group

(www.pinnacletelecomgroup.com)

Richard A. Tell Associates

(www.radhaz.com)

RSI

(www.rfcomply.com)

SiteSafe

(www.sitesafe.com)

Telnet

(www.telnet-inc.com)

Trott Communications Group

(www.trottgroup.com)

Waterford Consultants

(www.waterfordconsultants.com)

Radio Frequency (RF) Emissions

SAFETY
&
AWARENESS



FCC Information

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards incorporate prudent margins of safety. The following represents an overview of the most applicable information:

Classifications for Exposure Limits

Occupational

Persons are "exposed as a consequence of their employment" and are "fully aware of the potential for exposure and can exercise control over their exposure".

General Population

Any persons that "may not be made fully aware of the potential for exposure or cannot exercise control over their exposure".

Those in this category do not have RF Safety & Awareness Training.

Ensuring Compliance With FCC Guidelines

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines.

Wireless Licensees are required by law to implement the following:

- **Restrict access** (lock doors/ladders)
- **Post notification signage on every access point** to increase awareness of the potential for exposure BEFORE one enters an area with antennas.
- **Place additional notification signage and visual indicators** in an area with antennas (beyond an access point) where RF exposure levels may start to exceed the FCC's limits.

Compliance Materials

Notification Signage



(Notice) RF Guidelines - Informs viewer of the basic safety guidelines for working in an RF Environment.



Information— Provides relevant contact information for any questions or requests.



(Blue) Notice - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.



(Yellow) Caution - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.



(Red) Warning - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

Indicative Barriers

In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. **Examples of Indicative Barrier Materials:** plastic chains, buckets, reflective paint or tape, plastic cones, fiberglass fences, and poles mounted in cinderblocks.



Antenna Safety

Antenna Types



Yagi - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**



Panel - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**



Whip - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**



Microwave - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**

When In An Environment With Antennas:

- ⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.
- ⇒ Never touch an antenna. Assume all are active.
- ⇒ Read and obey ALL signs on an access point.
- ⇒ Read and obey ALL signs in the environment with antennas.
- ⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.
- ⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.
- ⇒ Contact all wireless licensees **at least 24-hours in advance** of scheduled maintenance.