

## 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**nsuring only authorized maintenance personnel have access, are made 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 Federal regulations can be achieved with a commitment to compliance and willingness to cooperate.



**In The Event That Emergency Maintenance Is Required**  
24-Hour Network Operations Center:  
**1-800-264-6620**

### **WHEN IN AN ENVIRONMENT WITH ANTENNAS:**

- ⇒ Read and obey ALL signs when working in the vicinity of antennas.
- ⇒ Assume all antennas are active and never touch an antenna without first confirming that it is powered down .
- ⇒ Maintain at least a **1-foot** clearance (or greater if otherwise indicated onsite) from all Small Cell antennas.
- ⇒ Only access restricted areas if you are trained in RF Safety, equipped with appropriate protective equipment (if required) and authorized to do so.
- ⇒ Contact all wireless carriers directly should work need to be performed within the posted separation distance or restricted RF area.

## Small Cells: Radio Frequency (RF) Emissions

SAFETY &  
AWARENESS

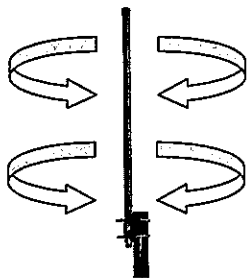


## SMALL CELL INFORMATION

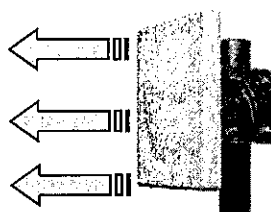
### WHAT IS A SMALL CELL?

Low powered antenna facilities designed to provide localized coverage in an area generally within a 500 to 1000 foot radius from the transmitting antenna.

### SMALL CELL ANTENNA TYPES



**Whip** - Antenna that emits energy equally in all directions.



**Panel** - Antenna that emits energy in one direction. RF energy beam can range from narrow to very wide.

### SMALL CELLS VS. TRADITIONAL CELL SITES

- Small cell antennas typically operate at power-levels much lower than traditional cell site antennas.
- Small cell antennas are typically smaller than traditional cell site antennas.
- RF emissions from small cell antennas are typically much lower.
- Small cell antennas are typically deployed at much lower heights than traditional cell site antennas.

## FEDERAL COMPLIANCE REQUIREMENTS

### FEDERAL COMMUNICATIONS COMMISSION

The 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 (OSHA). 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.

Wireless Licensees are required by law to implement the following if RF emissions may exceed FCC limits:

- **Restrict access** (lock doors/ladders) to authorized personnel.
- **Place 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.

### ADDITIONAL FEDERAL REGULATORY RESOURCES

- **RF Emissions Frequently Asked Questions**  
<http://transition.fcc.gov/oet/rfsafety/rf-faqs.html>
- **FCC Compliance Guidelines**  
See "FCC OET Bulletin 65"
- **Biological Effects of RF Electromagnetic Fields**  
See "FCC OET Bulletin 56"

## OPERATIONAL MEASURES

### RF EXPOSURE ANALYSIS

Verizon Wireless engineers are required to evaluate RF exposure levels in areas accessible to the general population and areas frequented by maintenance personnel.



Should exposure levels be predicted to exceed FCC limits, proper mitigation policies and procedures are in place to ensure compliance with all Federal exposure guidelines.

### NOTIFICATION SIGNAGE



- Informs one of the potential for RF emissions to exceed one of the FCC's exposure limits.
- These are placed at the point where RF emissions start to exceed FCC limits.

### OUTREACH

A compliance letter with regional and national Verizon Wireless contact information may be provided to existing structure owners.

