



# Radio Frequency Exposure FCC Compliance Assessment

Pre-Activation     Post-Activation

SITE-SPECIFIC-INFORMATION			
Site Name	Luna Bonita	Multi-Licensee Facility	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Street Address	West of El Conejo Park	Is Verizon a Significant Contributor to <u>Co-Locator</u> Areas Requiring Mitigation?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
City, State, Zip	Laguna Hills, CA, 92653		<input type="checkbox"/> N/A
Verizon's Max % MPE (Measured - Occupational)	N/A	Verizon's Max % MPE (Predictive - Occupational)	5.6%
Structure Type	Utility Tower	Assessment Date	N/A
Broadcast (AM/FM/TV) Co-Locators	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Assessment Purpose	NEW SITE
Total Access Points	N/A	Total Report Revisions	1
Original Report Date	05/05/2016	Report Revision Date	05/09/2016
Compliance Status	<input checked="" type="checkbox"/> COMPLIANT AS DESIGNED <input type="checkbox"/> COMPLIANT PER RF SAFETY PLAN SUBMISSION <input type="checkbox"/> MITIGATION IS REQUIRED		

VERIZON'S WORST-CASE RF EMISSIONS IN ACCESSIBLE AREAS AT THIS FACILITY	
<input checked="" type="checkbox"/>	BELOW the General Population MPE limit
<input type="checkbox"/>	ABOVE the General Population MPE limit and BELOW the Occupational MPE limit
<input type="checkbox"/>	ABOVE the Occupational MPE limit and BELOW 10x the Occupational MPE limit
<input type="checkbox"/>	ABOVE 10x the Occupational MPE limit

<u>Final Compliant Configuration</u>						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions				
Alpha	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions				
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions				
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions				

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location; also in Sec. 4 (B)

<b>Additional Compliance Requirements(s):</b>			
N/A			
<b>Consultant Legal Name</b>	Telnet Inc.	<b>Phone/Fax</b>	301-840-7110
<b>Address</b>	7630 Standish Place, Rockville, MD 20855		

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## 1. Introduction

Verizon Wireless has contracted with Telnet Inc., an independent Radio Frequency consulting firm, to conduct a **Radio Frequency Exposure (RFE) FCC Compliance Assessment** of the Luna Bonita cell site. The following report contains a detailed summary of the Radio Frequency environment as it relates to Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) Rules and Regulations for all individuals.

The **Verizon Wireless antenna data** was provided by:

<b>Name</b>	Maree Hoeger
<b>Title</b>	Zoning Manager
<b>Date</b>	4/26/2016
<b>Sub-Market</b>	CA

This compliance assessment and report has been **prepared and reviewed** by:

	<b>Preparer</b>	<b>Reviewer</b>
<b>Name</b>	Huda Alasadi	Muhammad Siddiki
<b>Title</b>	RF Engineer	RF Engineer
<b>Date</b>	05/05/2016	05/09/2016

This report utilizes the following **for predictive modeling of the ambient RF environment**:

**MPE Modeling Program:** Roofview 4.15

**Required Modeling Assumptions:** 100% Duty Cycle and Maximum Total Power Output.

### **Additional Modeling Assumptions:**

#### General Model Assumptions

In this report, it is assumed that all antennas are operating at full power at all times. Software modeling was performed for all transmitting antennas located on the site. Telnet, Inc. has further assumed a 100% duty cycle and maximum radiated power.

The site has been modeled with these assumptions to show the maximum RF energy density. Telnet Inc. believes this to be a worst case analysis, based on best available data.

If at any time power density measurements were to be made, Telnet Inc. believes the real time measurements would indicate levels below those shown in this report. By modeling in this way, we have conservatively shown exclusion areas (areas not to be entered without a personal RF monitor, carriers reducing power or performing real time measurements to show real time exposure levels).

#### Use of Generic Antennas

For the purposes of this report, the use of 'Generic' as an antenna model, or 'Unknown' for a wireless carrier, means that the information about the carrier, their FCC license and/ or antenna information was not provided and could not be obtained while on site. In the event of unknown information, Telnet will use our industry specific knowledge of equipment, antenna models and transmit power to model the site. If more specific information can be obtained for the unknown measurement criteria, remodeling of the site is recommended. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions

## 2. Existing Site Characteristics

### a. Structure

<b>Physical Description</b>	Tower
<b>Single-Family Home</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>Latitude (NAD 83)</b>	33°35'25.4"N
<b>Longitude (NAD 83)</b>	117°41'24.8"W
<b>Total Analyzed Elevations (Roof Levels)</b>	#1 (Ground Level)

### b. Accessibility

<b>Did the property owner or agent of the property owner (e.g. a security guard) grant you access to the rooftop?</b>	N/A
<b>If not - were you required to be escorted by Verizon personnel in order to gain access?</b>	N/A
<b>Were you required to provide any proof of identity to gain access?</b>	N/A
<b>What specific documents were required in order to gain access?</b>	N/A
<b>All access points locked at time of assessment?</b>	N/A
<b>All access points alarmed at time of assessment?</b>	N/A
<b>Were there any broken locks or inoperable alarms on any of the access points to the rooftop?</b>	N/A
<b>Were there any access issues caused by either the property owner or agent of the property owner?</b>	N/A
<b>Additional Notes:</b> N/A	

c. Existing Verizon Observations

<b>Existing Observations</b>						
	<b>GUIDELINES</b>	<b>NOTICE</b>	<b>CAUTION</b>	<b>WARNING</b>	<b>NOC INFO</b>	<b>BARRIER/MARKER</b>
<b>Access Point(s)</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
<b>Alpha</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
<b>Beta</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
<b>Gamma</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions

**NOTE:** The table above represents EXISTING compliance items implemented at this location.

<b>Are Verizon signs posted on the front, back and sides of antenna arrays where possible?</b>	N/A
<b>Are Verizon signs visible from all areas of approach?</b>	N/A
<b>Are there any broken, damaged or illegible Verizon signs?</b>	N/A
<b>Are there any broken or damaged Verizon physical barriers?</b>	N/A
<b>Are there any Verizon indicative markers in need of repair or replacement?</b>	N/A

d. Antenna Inventory

Z-height represents the distance from the nearest walking surface to the <u>62'</u> of the antenna.	<input checked="" type="checkbox"/> Bottom <input type="checkbox"/> Centerline <input type="checkbox"/> Top
NON-Verizon Co-Locator Data	<input checked="" type="checkbox"/> Estimates <input type="checkbox"/> Actual Data

Antenna Number	Operator	Type	TX Freq (MHz)	Input Power (Watts)	Gain (dBd)	Manufacturer	Model	Azimuth (deg.)	Aperture (ft)	Horizontal Beam width (deg.)	X (ft)	Y (ft)	Z Ground (ft)
1	Verizon	Panel	746	120	12.8	ComScore	SBNH-1D6565B	90	6	65	61	76	63
2	Verizon	Panel	2100	120	15.9	Ericsson	AIR 21	90	8	63	66	63	62
3	Verizon	Panel	1900	160	16.05	ComScore	SBNH-1D6565B	90	8	57	68	57	63
3	Verizon	Panel	850	144	13	ComScore	SBNH-1D6565B	90	6	65	68	57	63
4	Verizon	Panel	746	120	12.8	ComScore	SBNH-1D6565B	210	6	65	72	38	63
5	Verizon	Panel	2100	120	15.9	Ericsson	AIR 21	210	8	63	59	36	62
6	Verizon	Panel	1900	160	16.05	ComScore	SBNH-1D6565B	210	8	63	53	35	63
6	Verizon	Panel	850	144	13	ComScore	SBNH-1D6565B	210	6	65	53	35	63
7	Verizon	Panel	746	120	12.8	ComScore	SBNH-1D6565B	320	6	65	26	62	63
8	Verizon	Panel	2100	120	16.05	Ericsson	AIR 21	320	8	63	38	70	62
9	Verizon	Panel	1900	160	15.9	ComScore	SBNH-1D6565B	320	8	63	42	73	63
9	Verizon	Panel	850	144	13	ComScore	SBNH-1D6565B	320	6	65	42	73	63
10	Microwave	Panel	5000	0.8	32	Unknown	Unknown	320	3	65	29	71	54

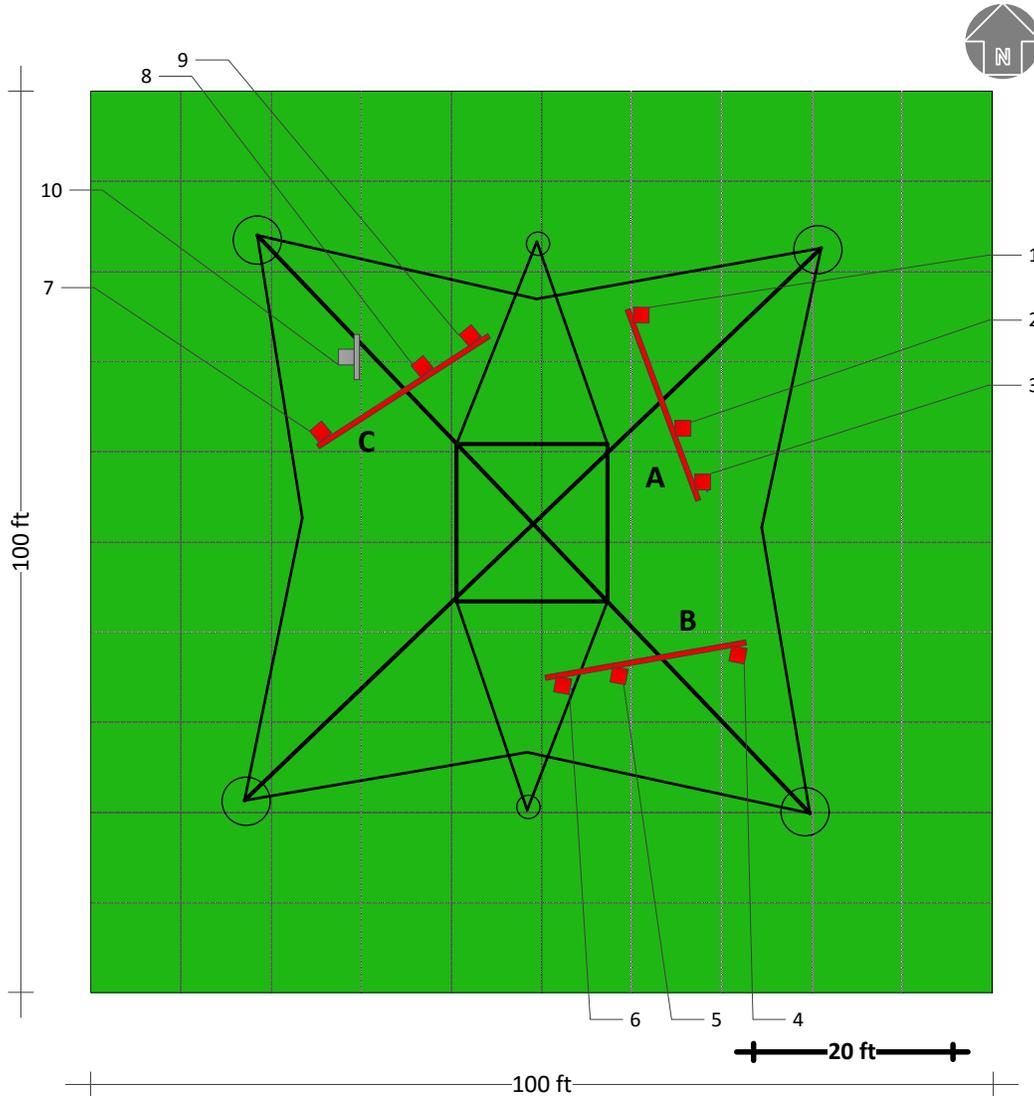
### 3. Analysis

<b>Could field measurements be taken in areas with Verizon antennas?</b>	N/A
<b>Describe why measurements could not be taken - if applicable.</b>	N/A
<b>Adjacent Structure(s)</b>	<input type="checkbox"/> <b>Touching</b> <input type="checkbox"/> <b>Potential Concern</b> <input checked="" type="checkbox"/> <b>No Concern</b>
<b>If the structure is a Single-Family Residential Home, were measurements taken inside the residence?</b>	N/A
<b>Field Measurement Equipment</b>	<input checked="" type="checkbox"/> <b>Broadband</b> <input type="checkbox"/> <b>Narrowband</b>
<b>Field Measurement Start Time</b>	N/A
<b>Field Measurement End Time</b>	N/A
<b>Location Broadband Equipment Zeroed</b>	N/A

a. Predictive Model: All Transmitters

Is the area being modeled completely <b>INACCESSIBLE</b> to members of the general population (including untrained maintenance workers)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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Reference Plane: Ground level



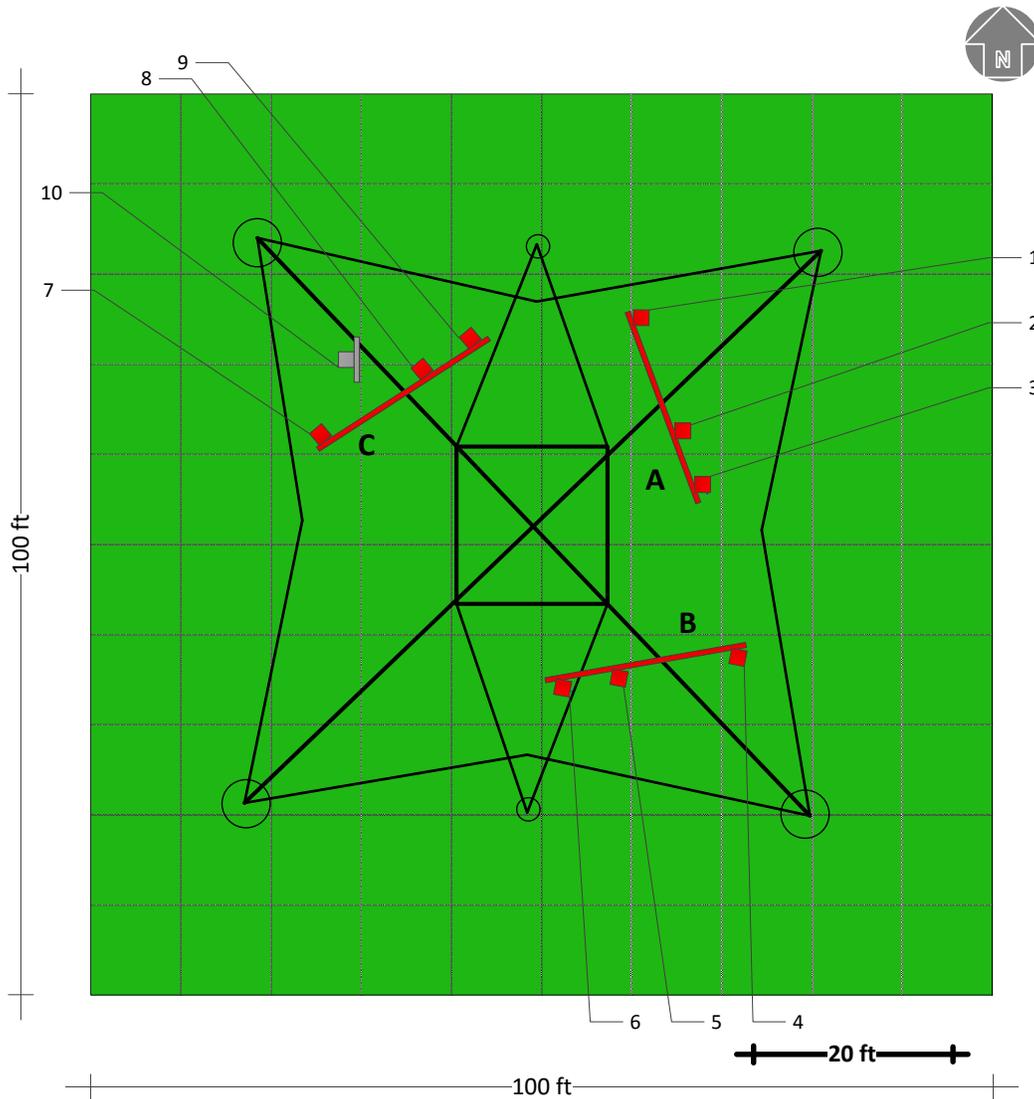
**Max Simulation Level 5.6%**

<b>LEGEND:</b>							
<b>CARRIER</b>	VERIZON	AT&T	SPRINT	T-MOBILE	METRO PCS	CRICKET	UNKNOWN
<b>ANTENNA:</b>							
Exterior Wall:  Exterior Wall Rooftop Object:  Rooftop Object RF Screen:  RF Screen Cable Tray:  Cable Tray Barrier Area:  Barrier Area Anchor Point:  Anchor Point							
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0% - 20% Occ. MPE
  20% - 100% Occ. MPE
  ≥ 100% Occ. MPE
  ≥ 1000% Occ. MPE

**b. Predictive Model: Verizon Transmitters**

**Reference Plane: Ground level**



**Max Verizon Simulation Level 5.6%**

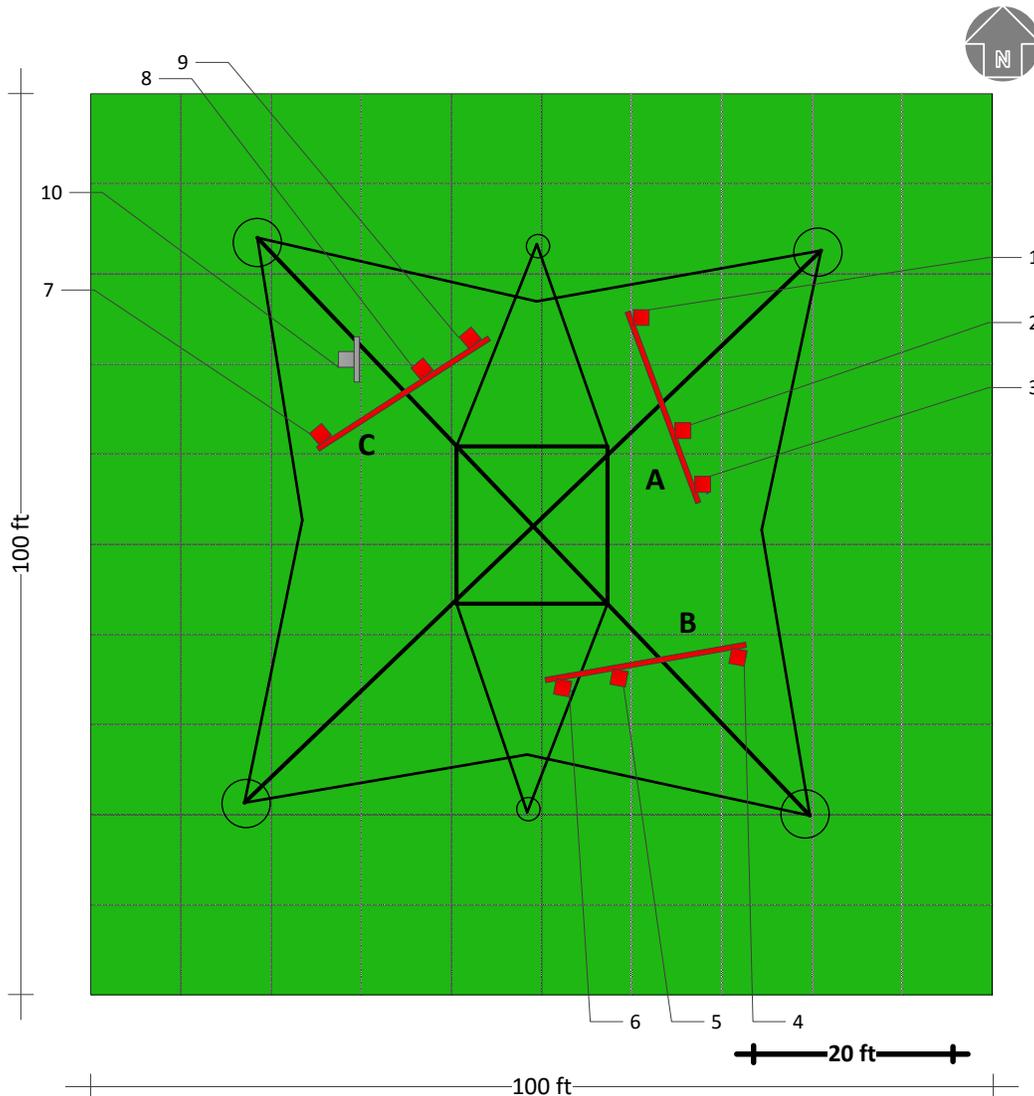
**LEGEND:**

<b>CARRIER ANTENNA:</b>	VERIZON	AT&T	SPRINT	T-MOBILE	METRO PCS	CRICKET	UNKNOWN												
<table border="0"> <tr> <td>Exterior Wall</td> <td>—</td> </tr> <tr> <td>Rooftop Object</td> <td>—</td> </tr> <tr> <td>RF Screen</td> <td>- - -</td> </tr> <tr> <td>Cable Tray</td> <td>—</td> </tr> <tr> <td>Barrier Area</td> <td>▨</td> </tr> <tr> <td>Anchor Point</td> <td>□</td> </tr> </table>								Exterior Wall	—	Rooftop Object	—	RF Screen	- - -	Cable Tray	—	Barrier Area	▨	Anchor Point	□
Exterior Wall	—																		
Rooftop Object	—																		
RF Screen	- - -																		
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Barrier Area	▨																		
Anchor Point	□																		
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0% - 20% Occ. MPE
  20% - 100% Occ. MPE
  ≥ 100% Occ. MPE
  ≥ 1000% Occ. MPE

c. Predictive Model: Significant Contribution of Verizon

Reference Plane: Ground level



**Max Verizon Simulation Level 5.6%**

LEGEND:	
<b>CARRIER ANTENNA:</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 20px; height: 10px; background-color: red; border: 1px solid black;"></div> VERIZON                     <div style="width: 20px; height: 10px; background-color: orange; border: 1px solid black;"></div> AT&amp;T                     <div style="width: 20px; height: 10px; background-color: lightblue; border: 1px solid black;"></div> SPRINT                     <div style="width: 20px; height: 10px; background-color: magenta; border: 1px solid black;"></div> T-MOBILE                     <div style="width: 20px; height: 10px; background-color: purple; border: 1px solid black;"></div> METRO PCS                     <div style="width: 20px; height: 10px; background-color: lightgreen; border: 1px solid black;"></div> CRICKET                     <div style="width: 20px; height: 10px; background-color: grey; border: 1px solid black;"></div> UNKNOWN                 </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>Exterior Wall </p> <p>Rooftop Object </p> <p>RF Screen </p> <p>Cable Tray </p> <p>Barrier Area </p> <p>Anchor Point </p> </div> <div style="width: 50%;"> <p>TELNET, INC., 7630 Standish Place, Rockville, MD 20855; Phone: 888-883-5638 / Fax: 301-840-0162; Web: www.Telnet-Inc.com</p> </div> </div>

0% - 1% Occ. MPE     ≥ 1% Occ. MPE

**4. Conclusion**

**a. Conclusion Narrative**

**Description of MPE-Limit Exceeding Areas (Ground Level):**

VZW Alpha sector is not exceeding 20 % Occupational limits

VZW Beta sector is not exceeding 20 % Occupational limits

VZW Gamma sector is not exceeding 20 % Occupational limits

**Verizon Significant Contribution Areas (Ground Level):**

VZW Alpha sector is exceeding 1% Occupational limit

VZW Beta sector is exceeding 1% Occupational limit

VZW Gamma sector is exceeding 1% Occupational limit

**Co-locator Significant Contribution Areas (Ground Level):**

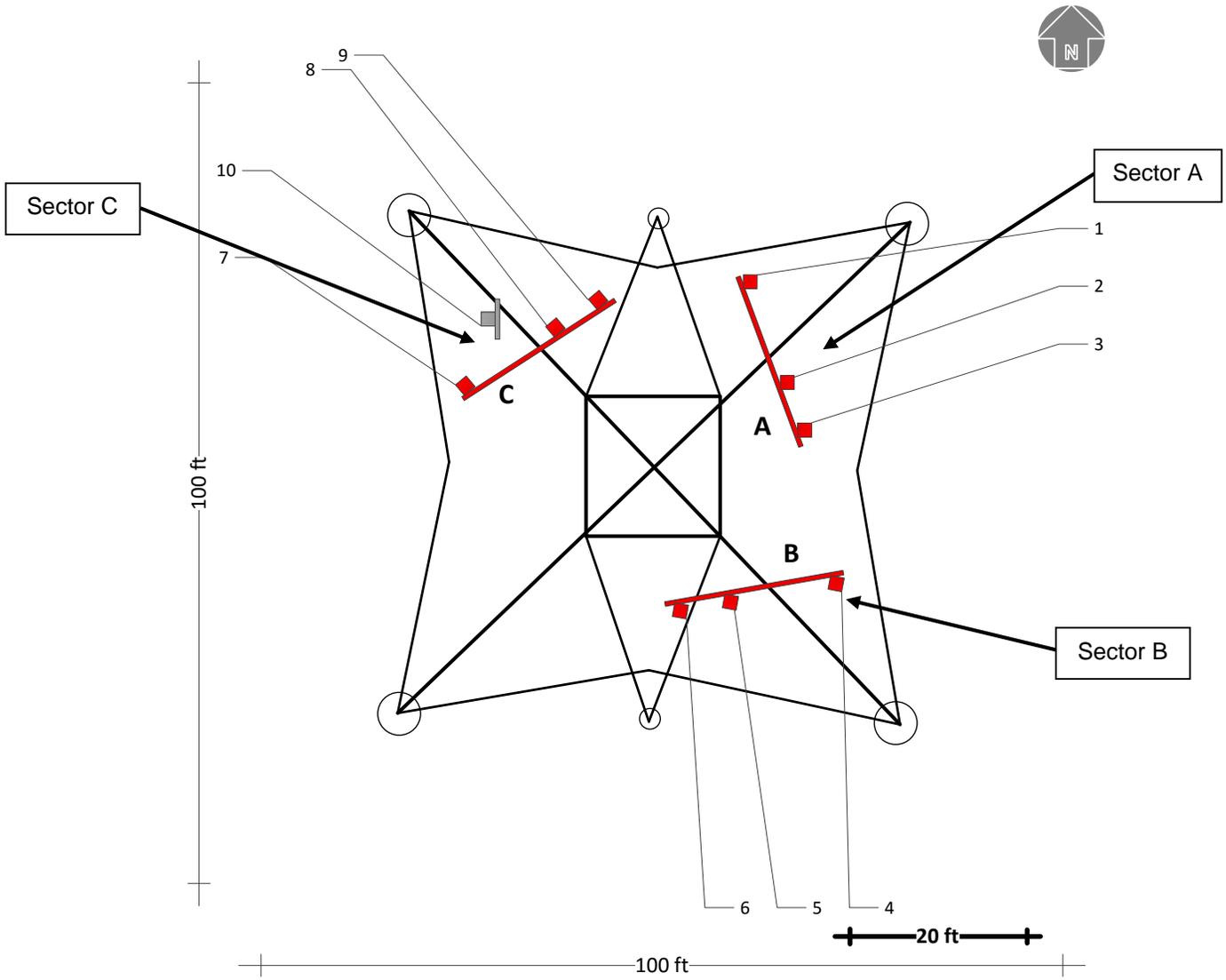
Microwave #10 is not exceeding 1% Occupational limit

**Potentially Non-Compliant Co-Locator Areas: Verizon Responsibility**

*The following table represents potentially non-compliant co-locators for which Verizon is a 5% General Population MPE (1% Occupational MPE) contributor.*

<b>AT&amp;T</b>	<b>T-Mobile</b>	<b>Sprint</b>	<b>US Cellular</b>	<b>Unknown</b>	<b>Microwave</b>
<input type="checkbox"/>					

**b. Signage/Barrier Diagram**



**LEGEND:**

<b>CARRIER ANTENNA:</b>	VERIZON	AT&T	SPRINT	T-MOBILE	METRO PCS	CRICKET	UNKNOWN
Exterior Wall		—					
Rooftop Object		—					
RF Screen		---					
Cable Tray		—					
Barrier Area		▨					
Anchor Point		□					

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<b>Final Compliant Configuration</b>						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
<b>Access Point(s)</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
<b>Alpha</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
<b>Beta</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
<b>Gamma</b>	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions

**NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.**

**c. Signage/Barrier Installation Detail**

<b>Mitigation Actions Required/Taken</b>						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
<b>Access Point(s)</b>	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> dimensions			
<b>Alpha</b>	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> dimensions			
<b>Beta</b>	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> dimensions			
<b>Gamma</b>	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> [#] <input type="checkbox"/> [#]	<input type="checkbox"/> dimensions			
	<b>ADD</b> <b>REM</b>	<b>ADD</b> <b>REM</b>	<b>ADD</b> <b>REM</b>	<b>ADD</b> <b>REM</b>	<b>ADD</b> <b>REM</b>	<b>ADD ONLY</b>

**NOTE: The table represents either the signage/barriers installed / removed OR items required by the market (if mitigation is not installed by consultant/vendor).**

## 5. Appendix C: RF Consultant Certifications

### a. Preparer Certification

I, Huda Alasadi, the preparer of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the Verizon Wireless Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

*Huda Alasadi*

### b. Reviewer Certification

I, Muhammad Siddiki, the reviewer and approved of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the Verizon Wireless Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

*Muhammad Siddiki*

## 6. Appendix D: Reference Information

### a. FCC Rules & Regulations

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 explanations of the most applicable information:

#### Two Classifications for Exposure Limits

<b>Occupational</b> – Applies to situations in which persons are “exposed as a consequence of their <i>employment</i> ” and are “ <i>fully aware</i> of the potential for exposure and can <i>exercise control</i> over their exposure”.	<b>General Population</b> – Applies to situations in which persons are “exposed as a consequence of their employment <i>may not be made fully aware</i> of the potential for exposure or <i>cannot exercise control</i> over their exposure”. Generally speaking, those without significant and documented RF Safety & Awareness training would be in the General Population classification.
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#### Environment Classification

<b>Controlled</b> – Applies to environments that are restricted or “controlled” in order to prevent access from members of the General Population classification.	<b>Uncontrolled</b> – Applies to environments that are unrestricted or “uncontrolled” that allow access from members of the General Population classification.
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<i>Limits for Occupational/Controlled Exposure</i>		
Frequency Range (MHz)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time (minutes)
300-1500	f/300	6
1500-100,000	5	6
<i>Limits for General Population/Uncontrolled Exposure</i>		
Frequency Range (MHz)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time (minutes)
300-1500	f/1500	30
1500-100,000	1	30
<i>f = frequency in MHz</i>		

#### Significant Contribution to the RF Environment

Any carrier contributing an aggregate MPE percentage of 5 or more (to the applicable RF Environment Classification) is defined as a significant contributor. This means that if any area is determined to be out of compliance with FCC rules, all significant contributors are jointly responsible for correcting any deficiencies.

### b. Occupational Safety and Health Administration (OSHA) Requirements

A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
<ul style="list-style-type: none"> <li>Utilization of good equipment</li> <li>Enact control of hazard areas</li> <li>Limit exposures</li> <li>Employ medical surveillance and accident response</li> </ul>	<ul style="list-style-type: none"> <li>Employ Lockout/Tag out</li> <li>Utilize personal alarms &amp; protective clothing</li> <li>Prevent access to hazardous locations</li> <li>Develop or operate an administrative control program</li> </ul>

**c. RF Signage**

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. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage **MUST** be viewable regardless of the viewer’s position.

GUIDELINES	NOTICE	CAUTION	WARNING
<p>This sign will inform anyone of the basic precautions to follow when entering an area with transmitting radiofrequency equipment.</p>	<p>This sign indicates that RF emissions may exceed the FCC General Population MPE limit.</p>	<p>This sign indicates that RF emissions may exceed the FCC Occupational MPE limit.</p>	<p>This sign indicates that RF emissions may exceed at least 10x the FCC Occupational MPE limit.</p>
			

NOC INFORMATION	
<p>Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the Verizon Wireless Network Operations Center phone number.</p>	

**d. Physical Barriers**

Physical barriers are control measures that require awareness and participation of personnel. Physical barriers are employed as an additional administration control to complement RF signage and physically demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example:** chain-connected stanchions

**e. Indicative Markers**

Indicative markers are visible control measures that require awareness and participation of personnel, as they cannot physically prevent someone from entering an area of potential concern. Indicative markers are employed as an additional administration control to complement RF signage and visually demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example:** paint stripes