



Verizon Wireless Site Compliance Report

Site name - BIG INDIAN FD

Site Name: BIG INDIAN FD
Site Address: 8 Fire House Rd, Shandaken, NY, 12410
Structure Type: Utility Pole

Report Information

Report Date: March 18, 2026
Report Generated by: Mamta Verma
Customer Contact: Brendan Hennessy

Compliance Statement

Verizon Compliance Statement: Verizon Wireless is compliant with FCC rules and regulations in all publicly accessible areas.



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Date: 2026-Mar-20

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1. Executive Summary

Verizon Wireless has contracted with **Circet USA**, an independent Radio Frequency consulting firm, to determine if the proposed telecommunications facility is in compliance with Federal Communications Commission (FCC) rules and regulations regarding RF exposure as defined in 47 CFR § 1.1307(b) and 1.1310. This document and the conclusions herein are based on the information provided by representatives of Verizon Wireless which is assumed to be true and correct.

All information used in this report was analyzed to determine compliance in publicly accessible areas, in particular at ground level. The analysis evaluates the telecommunications facility with respect to the General Population/Uncontrolled Maximum Permissible Exposure (MPE) limits. Circet USA has taken into consideration the Verizon Wireless antenna system as well as any existing antenna systems at the subject location.

Verizon Wireless final antenna count is (2) antenna.

Based on the analysis, Circet USA has determined that:

Verizon Wireless is compliant in all publicly accessible areas with the FCC rules and regulations governing human exposure to RF electromagnetic fields as described in 47 CFR § 1.1307(b) and 1.1310.

With the proposed Verizon Wireless antenna configuration in service, the composite exposure from this facility in all areas at ground level will be less than 1% of the General Population MPE limit, or over 100 times less than the maximum allowed exposure in publicly accessible areas.



2. Antenna Inventory

The table below contains data provided by Verizon Wireless representatives and/or gathered by Circet USA personnel. This data was used to perform the RF exposure analysis.

Ant ID	Owner	Antenna manufacturer	Antenna model	Mech. Tilt (°)	Azimuth (°)	Height (ft)	Frequency band	Elec. Tilt (°)	HBW (°)	VBW (°)	Total power (Watts)	Gain (dBd)	ERP (Watts)
1	Verizon	CommScope	NHHS4-65A-R3B	0	60	47.7	LTE 700	0	69	16.9	160	11.75	2393.98
1	Verizon	CommScope	NHHS4-65A-R3B	0	60	47.7	LTE 850	0	67	15.1	160	12.05	2565.19
1	Verizon	CommScope	NHHS4-65A-R3B	0	60	47.7	PCS1900	0	67	5.8	160	14.95	5001.73
1	Verizon	CommScope	NHHS4-65A-R3B	0	60	47.7	LTE 2100	0	67	5.8	80	14.95	2500.86
1	Verizon	CommScope	NHHS4-65A-R3B	0	60	47.7	WCDMA2100	0	67	5.8	80	14.95	2500.86
1	Verizon	CommScope	NHHS4-65A-R3B	0	60	47.7	4GHz	0	80	5.7	254.2	14.25	6763.16
2	Verizon	CommScope	NHHS4-65A-R3B	0	305	47.7	LTE 700	0	69	16.9	160	11.75	2393.98
2	Verizon	CommScope	NHHS4-65A-R3B	0	305	47.7	LTE 850	0	67	15.1	160	12.05	2565.19
2	Verizon	CommScope	NHHS4-65A-R3B	0	305	47.7	PCS1900	0	67	5.8	160	14.95	5001.73
2	Verizon	CommScope	NHHS4-65A-R3B	0	305	47.7	LTE 2100	0	67	5.8	80	14.95	2500.86
2	Verizon	CommScope	NHHS4-65A-R3B	0	305	47.7	WCDMA2100	0	67	5.8	80	14.95	2500.86
2	Verizon	CommScope	NHHS4-65A-R3B	0	305	47.7	4GHz	0	80	5.7	254.2	14.25	6763.16

Notes: Each row with the same number in the Antenna ID column references the same physical antenna. Power values provided by the client and used in the analysis may be greater than what is initially deployed.

80% TDD Duty Cycle and 100% FDD Duty Cycle are used.

3. Analysis

Circet USA has included the Verizon Wireless antenna system at the subject location in the analysis. All existing and proposed antennas are listed in the antenna table above. Engineering assumptions were used when specific antenna or operating parameter information was not available for the other existing collocated antennas (if applicable).

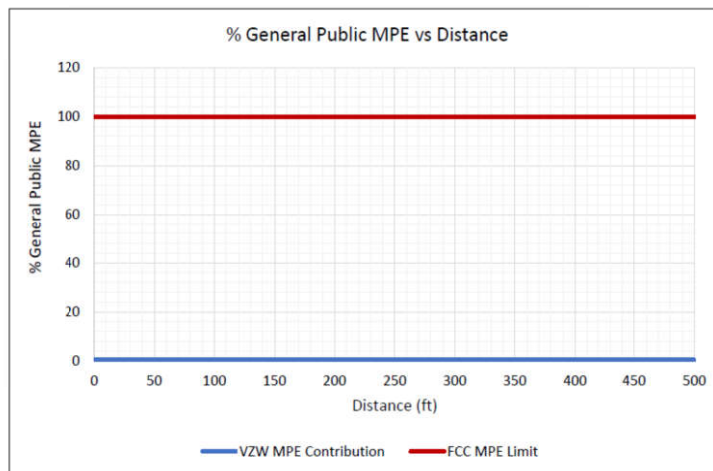
Using this data, software modeling using IXUS software was performed for all transmitting antennas located at the site. Circet USA has assumed a 100% duty cycle and maximum radiated power. The site has been modeled with these assumptions to determine the maximum potential RF energy density at ground level. Circet USA believes this to be a worst-case analysis based on the best available data.

As stated previously, based on this analysis, the calculated ground level exposure from the Verizon Wireless antenna system alone is less than 1% of the General Population MPE limit.

Keep in mind that the FCC did not arbitrarily establish their own standards but rather adopted the recommendations of national and international organizations such as the National Council on Radiation Protection and Measurements (NCRP), the American National Standards Institute (ANSI) and the Institute of Electrical and Electronics Engineers (IEEE). These recommendations were developed by expert scientists and engineers following extensive evaluation of the potential biological effects from RF exposure. The FCC MPE limits are based on thresholds for known adverse effects, and they were designed to provide a substantial margin of safety. There is a safety factor of 50 built into the General Public MPE limits, and the predicted Verizon Wireless exposure levels are over 100 times below these very conservative limits.

In cases where such compliance exists, the subject of electromagnetic field safety is preempted by the Telecommunications Act of 1996, which states: “No state or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the (Federal Communication) Commission’s regulations concerning such emissions.”

The graph below provides a visual depiction of the rather insignificant electromagnetic field exposure contribution from the Verizon Wireless antenna system out to a distance of 500’ from the base of the structure. This portrays how low the Verizon Wireless contribution is when compared to the General Population MPE limit.





4. Appendix A: Reference Information FCC Rules & Regulations

All information used in this report was analyzed as a percentage of the MPE limits as detailed in 47 CFR § 1.1310. The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides accumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below:

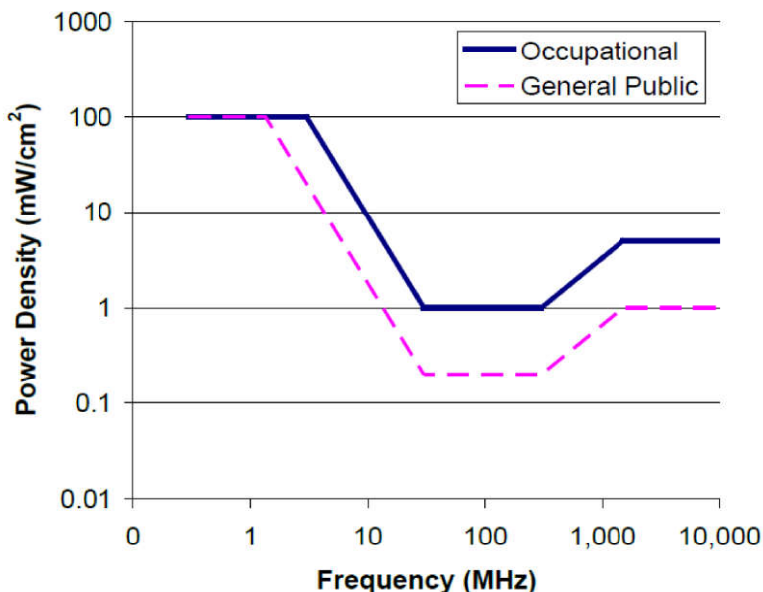
Two Classifications for Exposure Limits

<u>Occupational</u> – 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”.	<u>General Population</u> – 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

<u>Controlled</u> – Applies to environments that are restricted or “controlled” in order to prevent access from members of the General Population classification.	<u>Uncontrolled</u> – Applies to environments that are unrestricted or “uncontrolled” that allow access from members of the General Population classification.
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FCC Limits for Maximum Permissible Exposure (MPE) Plane-wave Equivalent Power Density



The MPE limits defined in 47 CFR § 1.1310 and utilized in this analysis are outlined in the table and diagram below:

<i>Limits for Occupational/Controlled Exposure</i>				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
<i>Limits for General Population/Uncontrolled Exposure</i>				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz
* = Plane-wave equivalent power density